

Service Manual

 **PIONEER**
The Art of Entertainment

ORDER NO.
ARP2443

STEREO DOUBLE CASSETTE DECK AMPLIFIER

DC-Z85_{SD, YPW}

DC-Z85 HAS THE FOLLOWING :

Type	Power Requirement	Remarks
SD	AC110V, 120 - 127V, 220V, 240V (Switchable)	
YPW	AC240V only	

● Refer to the service manual ARP2169 for DC-Z84/SD.

- This manual is applicable to DC-Z85/SD and YPW.
- These products are systems components.

Each of these products does not function properly when independent ; to avoid malfunctions, be sure to connect it to the prescribed system component (s), otherwise damage may result.

- For adjustment, refer to "ADJUSTMENTS FOR XD-Z54T, XD-Z84T, DC-Z94, DC-Z84 and DC-Z74" (ARP2140).

CONTENTS

1. CONTRAST OF MISCELLANEOUS PARTS	2
2. SCHEMATIC AND PCB CONNECTION DIAGRAMS	4

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1. CONTRAST OF MISCELLANEOUS PARTS

NOTES:

- Part without part number cannot be supplied.
- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

DC - Z85/SD, YPW and DC - Z84/SD have the same construction except for the following :

Mark	Symbol & Description	Part No.			Remarks
		DC - Z84/ SD type	DC - Z85/ SD type	DC - Z85/ YPW type	
●	AF assembly	AWZ3338	AWZ4106	AWZ4106	*1
●	SUB TRANS assembly	AWR1058	AWR1058	AWR1062	
	2 MECHA assembly	Non supply	Non supply	Non supply	
●	2 MECHA unit (RP)	EXK2015	EXK2017	EXK2017	
Δ	S101 Line voltage selector switch (AC110-127/220-240V)	AKX1004	AKX1004	.....
Δ	S102 Line voltage selector switch (AC110/120-127/220/240V)	AKX-507	AKX-507	.....
Δ	T2001 Power transformer	ATS1319	ATS1401	ATS1419	
Δ	FU101 Fuse (T4A/250V)	AEK-400	AEK-514	.....
Δ	FU101 Fuse (T2A/250V)	.....	.....	AEK-511
Δ	FU102 Fuse (T1.6A/250V)	AEK-405	AEK-510	AEK-510	
Δ	FU103 Fuse (T1.6A/250V)	AEK-405	AEK-510	
Δ	FU151, FU152 Fuse (T800mA/250V)	AEK-031	AEK-507	AEK-507	
Δ	AC Power cord	ADG1051	ADG1051	ADG1050	
Δ	AC Outlet 1P	.....	.....	AKP-517
	Cursor button	AAD1900	AAD2216	AAD2216	
	AI button	AAD1901	AAD2217	AAD2217	
	Decorative plate B (DECK)	AAK2072	AAK2280	AAK2280	
	AI decorative plate	AAK2073	AAK2281	AAK2281	
	Cassette door (R)	AAN1250	AAN1319	AAN1319	
	Cassette door (L)	AAN1251	AAN1318	AAN1318	
	Front panel	AMB1743	AMB1959	AMB1959	
	Packing case	AHD1966	AHD2240	AHD2240	
	Operating instructions (English)	ARB1281	ARB1354	ARB1354	
	Operating instructions (Spanish)	ARC1234	ARC1327	.....

*1 : 2 MECHA assemblies of DC - Z85/SD and YPW types are the same.

● 2 MECHA UNIT (EXK2017)

2 MECHA unit (EXK2017) and 2 MECHA unit (EXK2015) have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		EXK 2015	EXK2017	
	R/P Head assembly	EXX1007	EXX1013	

● AF ASSEMBLY (AWZ4106)

AF assembly (AWZ4106) and AF assembly (AWZ3338) have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ3338	AWZ4106	
	IC301	STK4162-2GP	STK4192-2GP	
	C151, C152 (3300/50)	ACH1017	.....
	C151, C152 (5600/50)	.....	ACH1145	
	C1006	CKDYB152K50	CKCYB152K50	
	C1007, C1008	CKDYB562K50	CKCYB562K50	
	R416	RS2LMF331J	RS2LMF391J	

● SUB TRANS ASSEMBLY (AWR1062)

SUB TRANS assembly (AWR1062) and SUB TRANS assembly (AWR1058) have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWR1058	AWR1062	
	T101	ATT1144	ATT1149	
△	AC Outlet 1P	AKP1078	.....

2 MECHA ASSEMBLY (DC-Z85/SD and YPW)

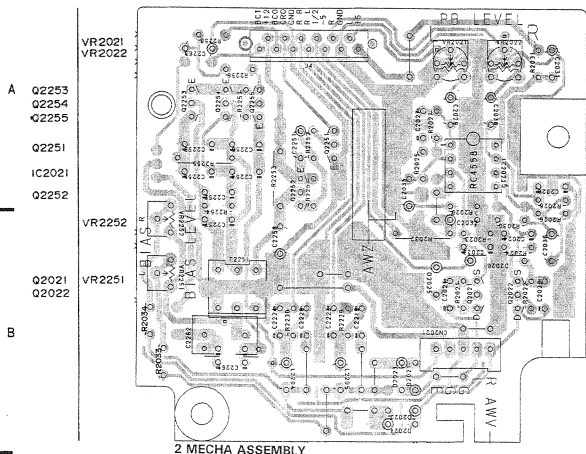
2 MECHA assembly (DC-Z85/SD and YPW) and 2 MECHA assembly (DC-Z84/SD) have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		DC-Z84/SD	DC-Z85/SD, YPW	
	C2219, C2220	CCDSL271K500	CCCSL271K500	
	C2259, C2260	CCCSL101K500	.....
	R2033, R2034	.....	RD1/8PM333J	

2.1 2 MECHA ASSEMBLY AND 2 MECHA UNIT



This P. C. B connection diagram is viewed from the parts mounted side.



NOTE

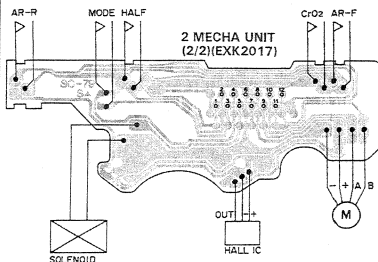
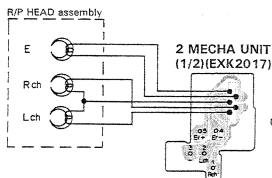
1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
		Transistor
		Radiator type transistor
		Diode
		Resistor
		Capacitor (Polarized)
		Capacitor (Non-polarized)

Others

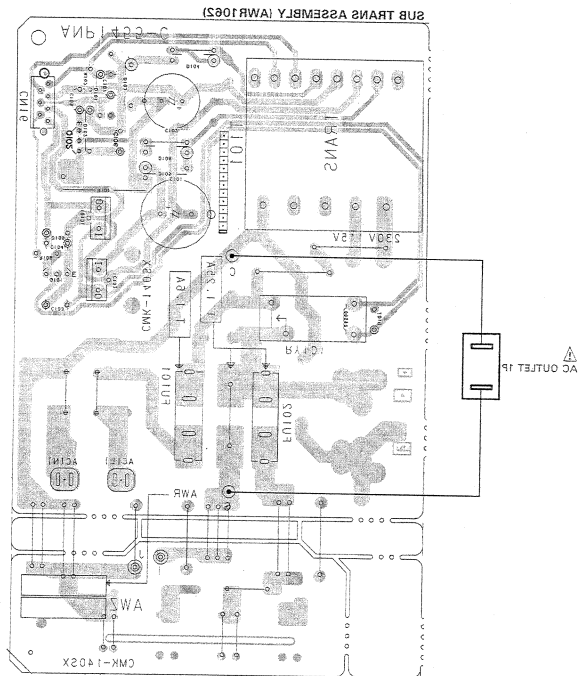
P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

3. The capacitor terminal marked with ⊕ (double circles) shows negative terminal.
4. The diode terminal marked with ⊕ (double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.



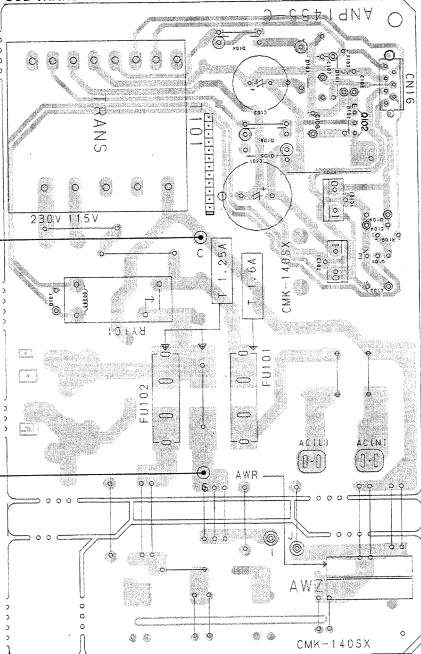
2.2 SUB TRANS ASSEMBLY (AWR1062)

This P. C. B. connection diagram is viewed from the foil side.



This P.C.B. connection diagram is viewed from the parts mounted side.

SUB TRANS ASSEMBLY (AWR1062)



NOTE

1. This P.C.B. connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
		Transistor
		Radiator type transistor
		Diode
		Resistor
		Capacitor (Polarized)
		Capacitor (Non-polarized)

Others

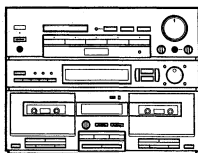
P.C.B. pattern diagram indication	Part Name
	IC
	Switch
	Relay
	Coil
	Filter
	Variable resistor or Semi-fixed resistor

3. The capacitor terminal marked with @ (double circles) shows negative terminal.
4. The diode terminal marked with @ (double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.



Service Manual

PIONEER
The Art of Entertainment



ORDER NO.
ARP2169

STEREO DOUBLE CASSETTE DECK AMPLIFIER

DC-Z84

DC-Z84 HAS THE FOLLOWING :

Type	Power Requirement	Remarks
SD	AC110V, 120V-127V, 220V, 240V (Switchable)	
YPW	AC240V only	

- This manual is applicable to the DC-Z84/SD and YPW types.
- As to the YPW type, refer to pages 51-54.
- This product is a component of a system. As to the system composition, refer to the system manual.
- For adjustment refer to ADJUSTMENTS FOR XD-Z54T, XD-Z84T, DC-Z94, DC-Z84 and DC-Z74 (ARP2140).

CONTENTS

1. EXPLODED VIEWS, PACKING AND PARTS LIST	2	3. P.C.B.'s PARTS LIST	45
2. SCHEMATIC DIAGRAM AND P.C. BOARDS CONNECTION DIAGRAM	12	4. FOR YPW TYPE	51
		5. PANEL FACILITIES	55
		7. SPECIFICATIONS	60

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1. EXPLODED VIEWS, PACKING AND PARTS LIST

NOTES:

- Parts without part number cannot be supplied.
- The  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "◎" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

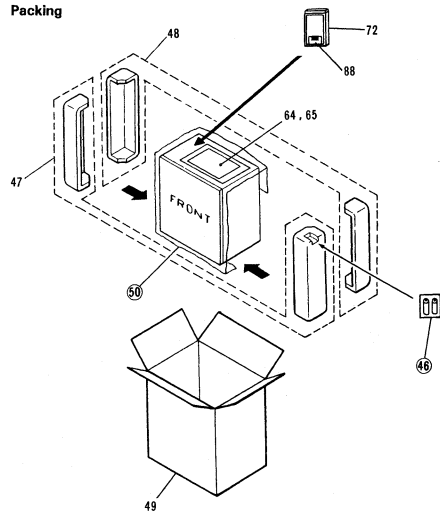
1.1 EXTERIOR AND PACKING

Parts list of Exterior and Packing

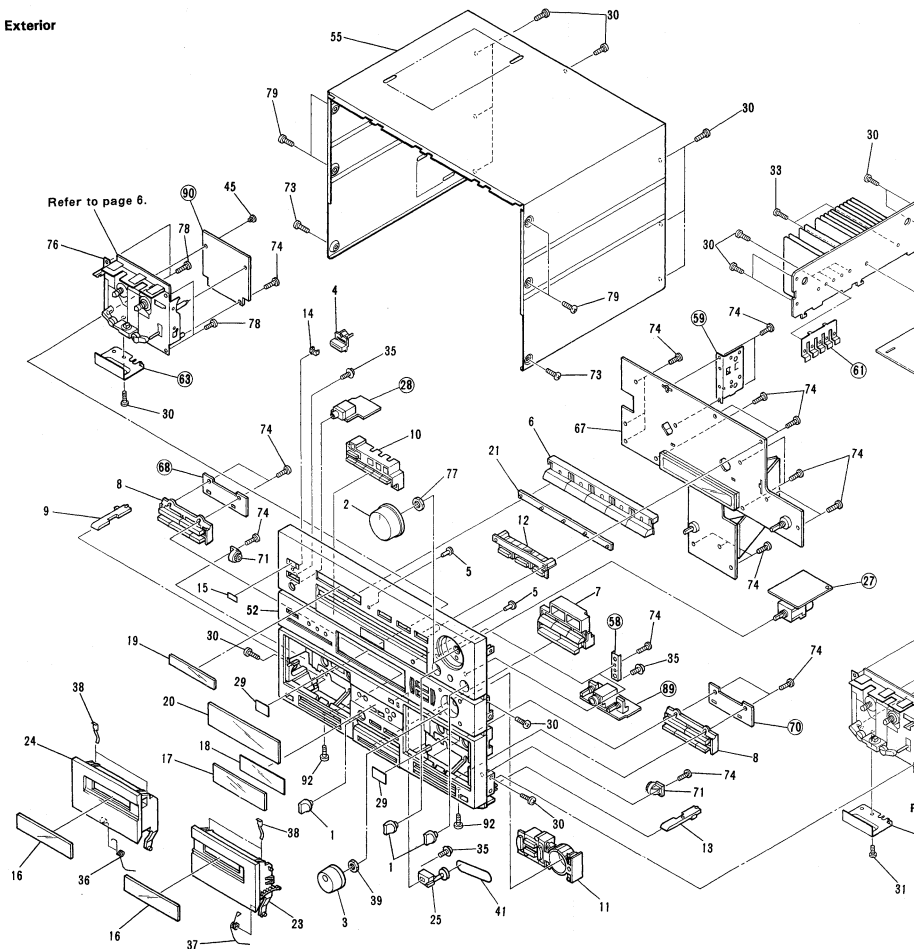
Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	1	ROTARY KNOB (BALANCE, MIC LEVEL, DOLBY NR)	AAB1136	41	COUNTER BELT		AEB1161
	2	VOL KNOB (VOLUME)	AAB1200	42	NYLON BINDER		
	3	ROTARY KNOB (SOUND JOG)	AAB1202	43	LEG ASSEMBLY		AEC-847
	4	POWER BUTTON	AAD1674	44	STRAIN RELIEF		AEC-882
	5	KIN BUTTON (MEMORY, LOUDNESS)	AAD1682	45	NYLON RIVET		AEC1160
	6	FUNCTION BUTTON	AAD1894	46	DRY CELL BATTERY (R03, AAA)		
	7	REC. COPY BUTTON	AAD1895	47	FRONT PAD L, R		AHA1404
	8	DECK PLAY BUTTON	AAD1896	48	REAR PAD L, R		AHA1405
	9	EJECT BUTTON L	AAD1898	49	PACKING CASE		AHD1966
	10	GEQ BUTTON	AAD1899	50	SHEET		
	11	CURSOR BUTTON	AAD1900	51	TERMINAL SCREW		
	12	AI BUTTON	AAD1901	52	FRONT PANEL		AMB1743
	13	EJECT BUTTON R	AAD1922	53	CHASSIS		
	14	LENS (POWER IND.)	AAK1800	54	REAR PANEL		
	15	FILTER (REMOTE SENSOR)	AAK1812	55	BONNET		ANE1298
	16	DECORATIVE PLATE (DOOR)	AAK2065	56	PACK HOLDER		
	17	DECORATIVE PLATE A	AAK2071	57	HEAT SINK HOLDER B		
	18	DECORATIVE PLATE B	AAK2072	58	PRESSURE METAL		
	19	AI DECORATIVE PLATE	AAK2073	59	HEAT SINK HOLDER A		
	20	DECORATIVE PLATE (GEQ)	AAK2074	60	PCB HOLDER		
	21	INDICATOR LENS	AAK2075	61	HOLDER		
◎	22	AF ASSEMBLY	AWZ3338	62	HEAT SINK		
	23	CASSETTE DOOR R	AAK1250	63	SHIELD PLATE (MECHA)		
	24	CASSETTE DOOR L	AAK1251	64	OPERATING INSTRUCTIONS (ENGLISH)		ARB1281
	25	COUNTER	AAW1009	65	OPERATING INSTRUCTIONS (SPANISH)		ARC1234
◎	26	GEQ ASSEMBLY	AWX1048	66	TRANS CONNECT ASSEMBLY		
	27	VR ASSEMBLY		◎ 67	DISPLAY ASSEMBLY		AWZ3351
	28	HEAD PHONE ASSEMBLY		68	1 MECHA SW ASSEMBLY		
	29	FABEL (PAPER)	AAX1301	◎ 69	SUB TRANS ASSY		AWR1058
	30	SCREW	ABA-298	70	2 MECHA SW ASSEMBLY		
	31	SCREW (STEEL)	ABA1009	71	DAMPER ASSEMBLY		AXA1008
	32	SCREW (STEEL)	ABA1011	72	REMOTE CONTROL UNIT (CU-DC022)		AXD1183
	33	SCREW	ABA1018	73	SCREW		BBZ30P080FZK
	34	SCREW	ABA1082	74	SCREW		BPZ26P080FMC
	35	SCREW (STEEL)	ABA1095	75	2 MECHA UNIT		EXK2010
	36	DOOR SPRING L	ABH1068	76	1 MECHA UNIT		EXK2020
	37	DOOR SPRING R	ABH1069	77	NUT		NK90FUC
	38	KEEP PLATE	ABK1016	78	SCREW		VPZ30P080FMC
	39	NUT	ABN1016				
△	40	AC POWER CORD	ADG1051				

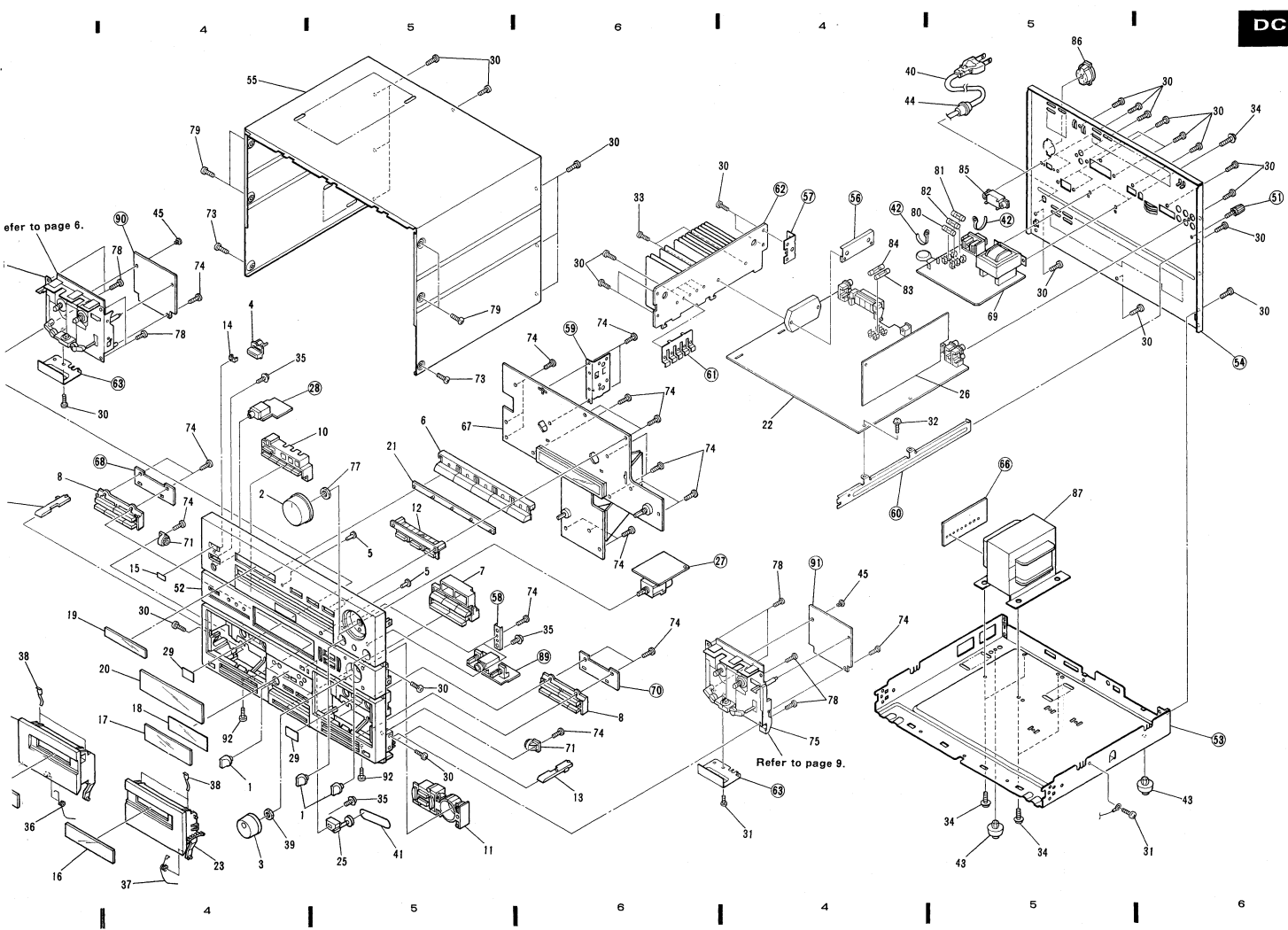
Mark	No.	Description	Parts No.
A	79	SCREW	VPZ30P080FZK
	80	FUSE (T4A, FU101)	AEK-400
	81	FUSE (T1.6A, FU102)	AEK-405
	82	FUSE (T1.6A, FU103)	AEK-405
	83	FUSE (T800mA, FU151)	AEK-031
	84	FUSE (T800mA, FU152)	AEK-031
	85	VOLTAGE SELECTOR (S101)	AKX1004
	86	VOLTAGE SELECTOR (S102)	AKX-507
	87	POWER TRANSFORMER (T2001)	ATS1319
	88	BATTERY COVER	AZN1846
	89	MIC BALANCE ASSEMBLY	
	90	1 MECHA ASSEMBLY	
	91	2 MECHA ASSEMBLY	
	92	SCREW	BBZ30P060FZK

Packing



Exterior





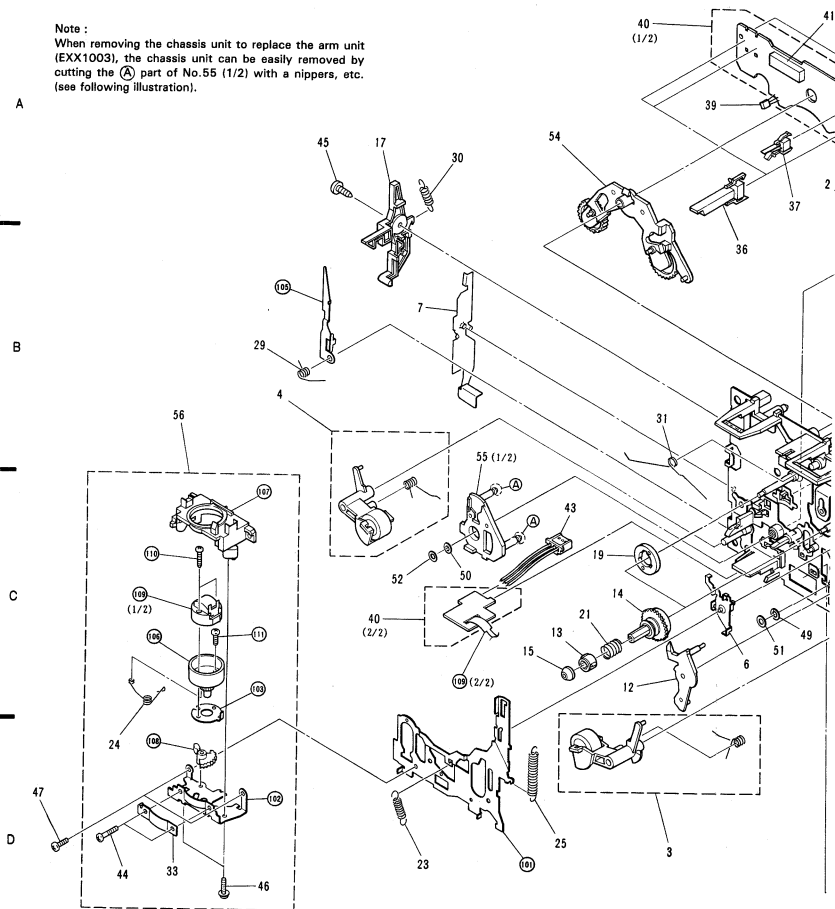
1.2 1 MECHA UNIT (EXK2020)

Parts list of 1 Mecha unit

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	1	FLYWHEEL UNIT (FWD)	EXA1102		51	WASHER	EBF1010
	2	FLYWHEEL UNIT (RVS)	EXA1103		52	WASHER	EBF1011
	3	ROLLER UNIT (FWD)	EXA1104		53	.....	.....
	4	ROLLER UNIT (RVS)	EXA1105		54	ARM UNIT	EXX1002
	5	LIMITER UNIT	EXA1106		55	ARM UNIT	EXX1003
	6	LEVER UNIT	EXA1107		56	P HEAD ASSEMBLY	EXX1005
	7	ARM	AZN2063				
	8	NR LEVER	ENV1155				
	9	BRAKE	ENV1157				
	10	CAM GEAR	ENV1158				
	11	LOCK ARM	ENV1159		101	HEAD BASE	
	12	NR ARM	ENV1163		102	BRACKET	
	13	REEL COLLAR	ENV1164		103	PLATE	
	14	REEL	ENV1170		104	BRACKET	
	15	REEL BUSH	ENV1178		105	ARM	
	16	ARM	ENV1181		106	HOLDER	
	17	ARM	AZN2069		107	HOLDER	
	18	BUSH	ENV1184		108	GEAR	
	19	MAGNET	ENV1185		109	P HEAD UNIT	
	20	BELT	ENT1015		110	SCREW	
	21	SPRING	EBH1201		111	SCREW	
	22	SPRING	EBH1202		112	CHASSIS UNIT	
	23	SPRING	EBH1203				
	24	SPRING	EBH1204				
	25	SPRING	EBH1208				
	26	SPRING	EBH1209				
	27	SPRING	EBH1210				
	28	SPRING	EBH1211				
	29	SPRING	EBH1255				
	30	SPRING	EBH1213				
	31	SPRING	EBH1220				
	32	SPRING	EBH1256				
	33	SPRING	EBL1013				
	34	SPRING	EBL1014				
	35	MOTOR UNIT	EXA1108				
	36	SWITCH (Detect)	ESN1003				
	37	SWITCH (Mode)	ESN1004				
	38	SOLENOID	EXP1005				
	39	HALL IC	DN6847SE				
	40	P.C.BOARD	ENX1002				
	41	CONNECTOR	EKS1013				
	42	LEAD WIRE	EDD1003				
	43	CONNECTOR	EDE1009				
	44	SCREW	EBA1020				
	45	SCREW	EBA1021				
	46	SCREW (M2×8)	ATZ20P080FMC				
	47	SCREW	RSZ20P050FMC				
	48	SCREW	PMS26P025FCU				
	49	WASHER	EBF1008				
	50	WASHER	EBF1009				

Note :

When removing the chassis unit to replace the arm unit (EXX1003), the chassis unit can be easily removed by cutting the (A) part of No.55 (1/2) with a nippers, etc. (see following illustration).



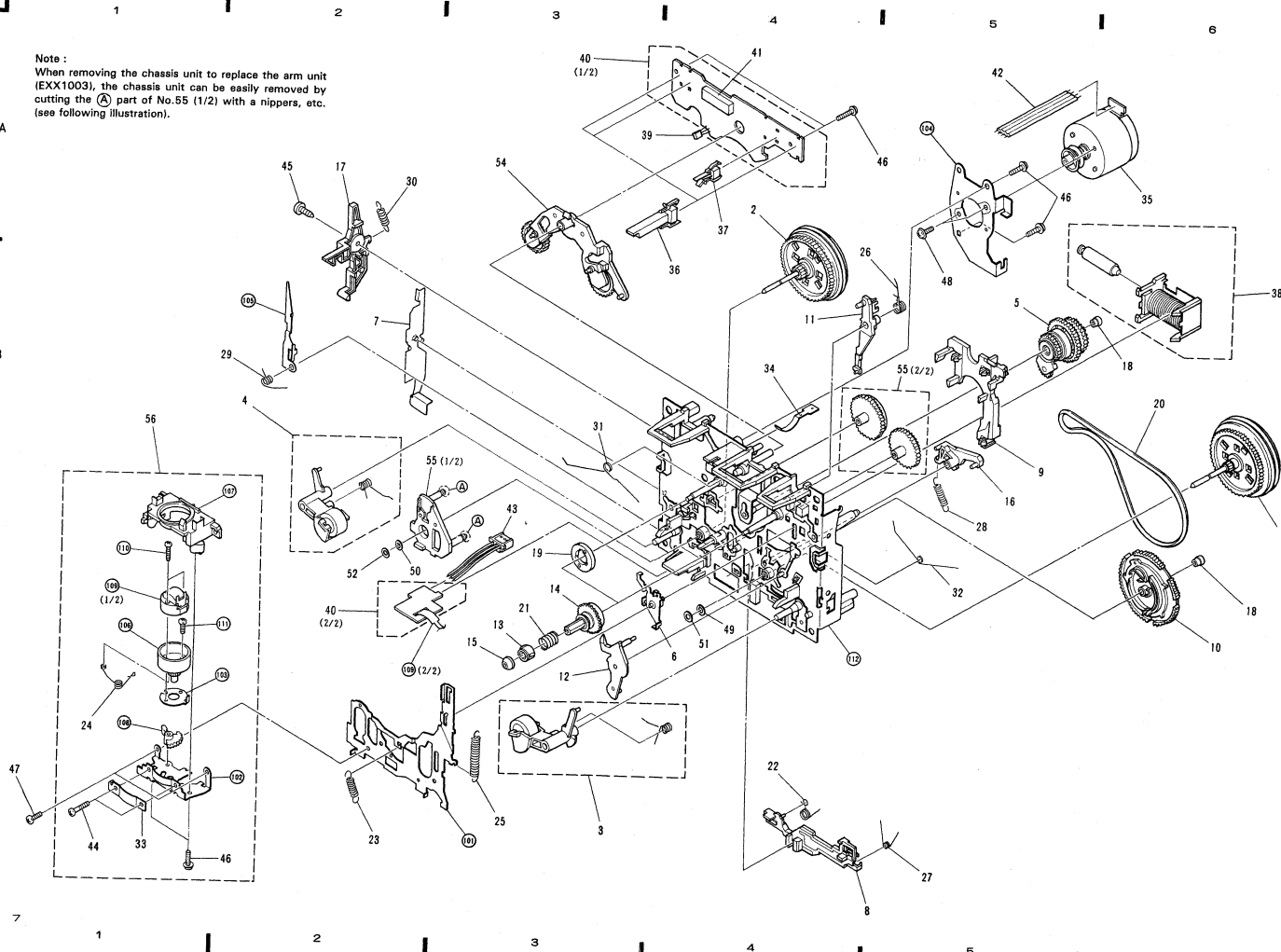
Note:
When removing the chassis unit to replace the arm unit (EXX1003), the chassis unit can be easily removed by cutting the (A) part of No.55 (1/2) with a nippers, etc. (see following illustration).

A

B

C

D



A

B

C

D

1.3 2 MECHA UNIT (EXX2010)

Parts list of 2 Mecha unit

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	1	FLYWHEEL UNIT (FWD)	EXA1102		51	WASHER	EBF1010
	2	FLYWHEEL UNIT (RVS)	EXA1103		52	WASHER	EBF1011
	3	ROLLER UNIT (FWD)	EXA1104		53	.....	.....
	4	ROLLER UNIT (RVS)	EXA1105		54	ARM UNIT	EXX1002
	5	LIMITER UNIT	EXA1106		55	ARM UNIT	EXX1003
	6	LEVER UNIT	EXA1107		56	R/P HEAD ASSEMBLY	EXX1004
	7	ARM	AZN2064				
	8	NR LEVER	ENV1155				
	9	BRAKE	ENV1157				
	10	CAM GEAR	ENV1158				
	11	LOCK ARM	ENV1159		101	HEAD BASE	
	12	NR ARM	ENV1163		102	BRACKET	
	13	REEL COLLAR	ENV1164		103	PLATE	
	14	REEL	ENV1170		104	BRACKET	
	15	REEL BUSH	ENV1178		105	ARM	
	16	ARM	ENV1181		106	HOLDER	
	17	ARM	AZN2070		107	HOLDER	
	18	BUSH	ENV1184		108	GEAR	
	19	MAGNET	ENV1185		109	R/P HEAD UNIT	
	20	BELT	ENT1015		110	SCREW	
	21	SPRING	EBH1201		111	SCREW	
	22	SPRING	EBH1202		112	CHASSIS UNIT	
	23	SPRING	EBH1203				
	24	SPRING	EBH1204				
	25	SPRING	EBH1208				
	26	SPRING	EBH1209				
	27	SPRING	EBH1210				
	28	SPRING	EBH1211				
	29	SPRING	EBH1254				
	30	SPRING	EBH1213				
	31	SPRING	EBH1220				
	32	SPRING	EBH1256				
	33	SPRING	EBL1013				
	34	SPRING	EBL1014				
	35	MOTOR UNIT	EXA1108				
	36	SWITCH (Detect)	ESN1003				
	37	SWITCH (Mode)	ESN1004				
	38	SOLENOID	EXP1005				
	39	HALL IC	DNG847SE				
	40	P.C.BOARD	ENX1002				
	41	CONNECTOR	EKS1012				
	42	LEAD WIRE	EDD1003				
	43	CONNECTOR	EDL1008				
	44	SCREW	EBA1020				
	45	SCREW	EBA1021				
	46	SCREW (M2 × 8)	AT220P080FMC				
	47	SCREW	BSZ20P060FMC				
	48	SCREW	PMS32P025FCU				
	49	WASHER	EBF1008				
	50	WASHER	EBF1009				

Note :

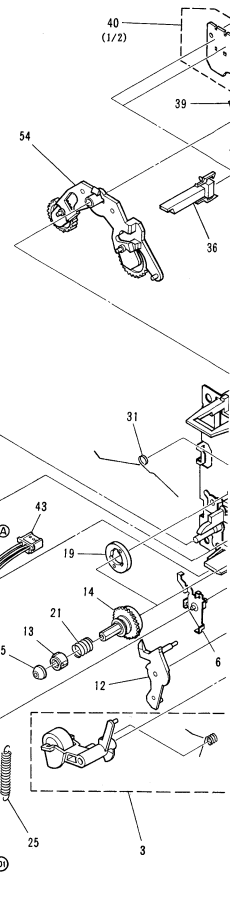
When removing the chassis unit to replace the arm unit (EXX1003), the chassis unit can be easily removed by cutting the (A) part of No.55 (1/2) with a nippers, etc. (see following illustration).

A

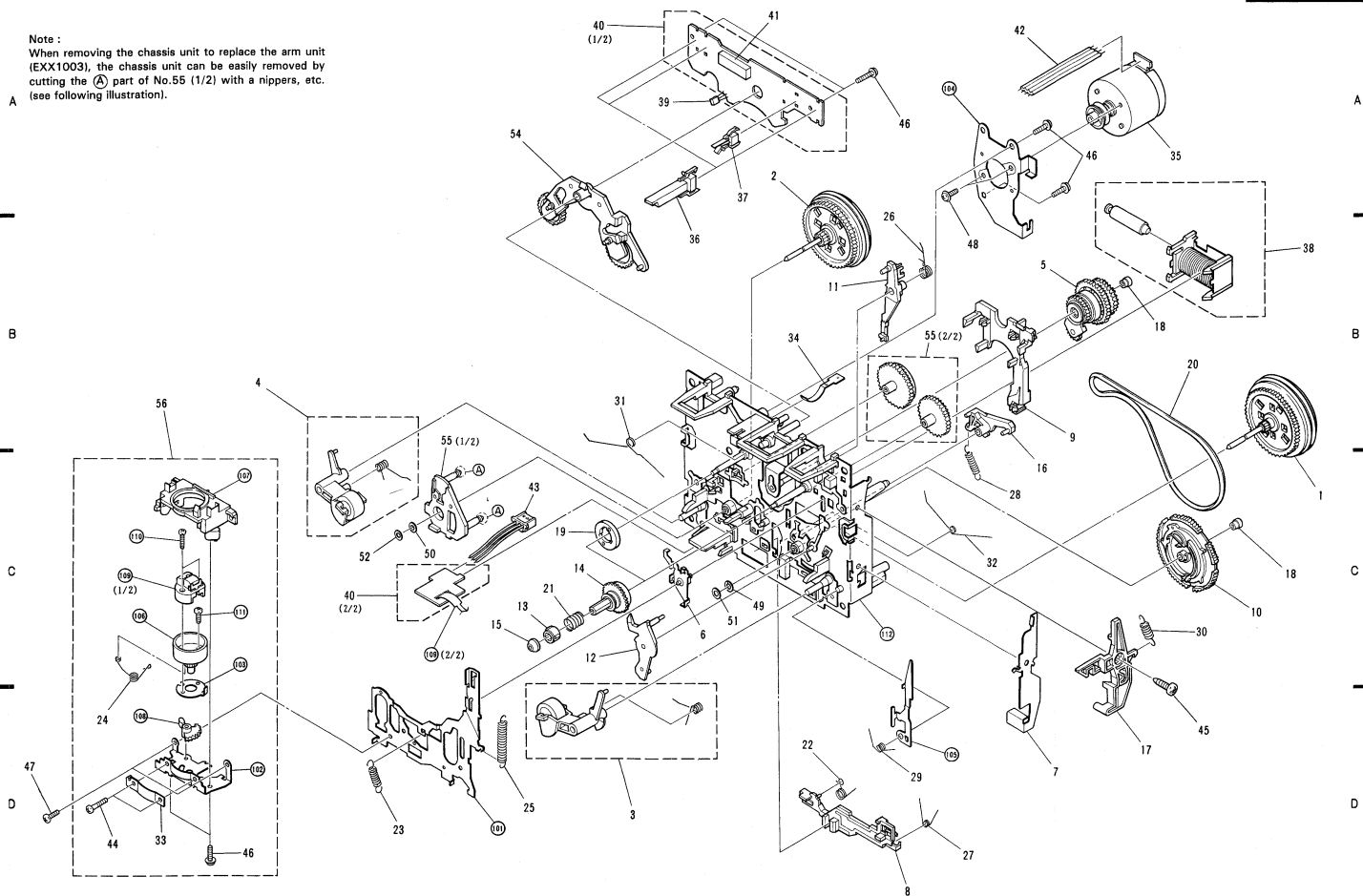
B

C

D

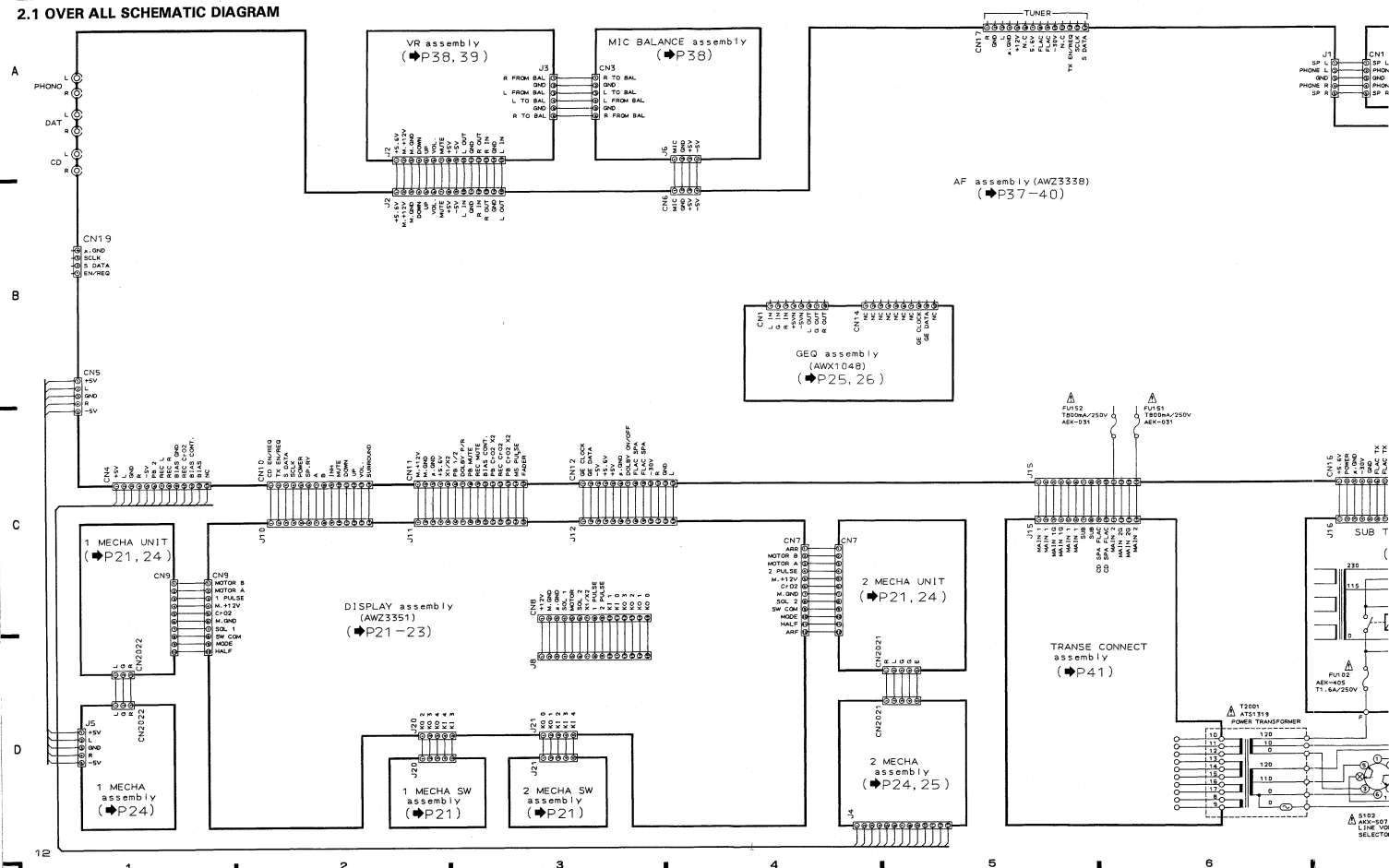


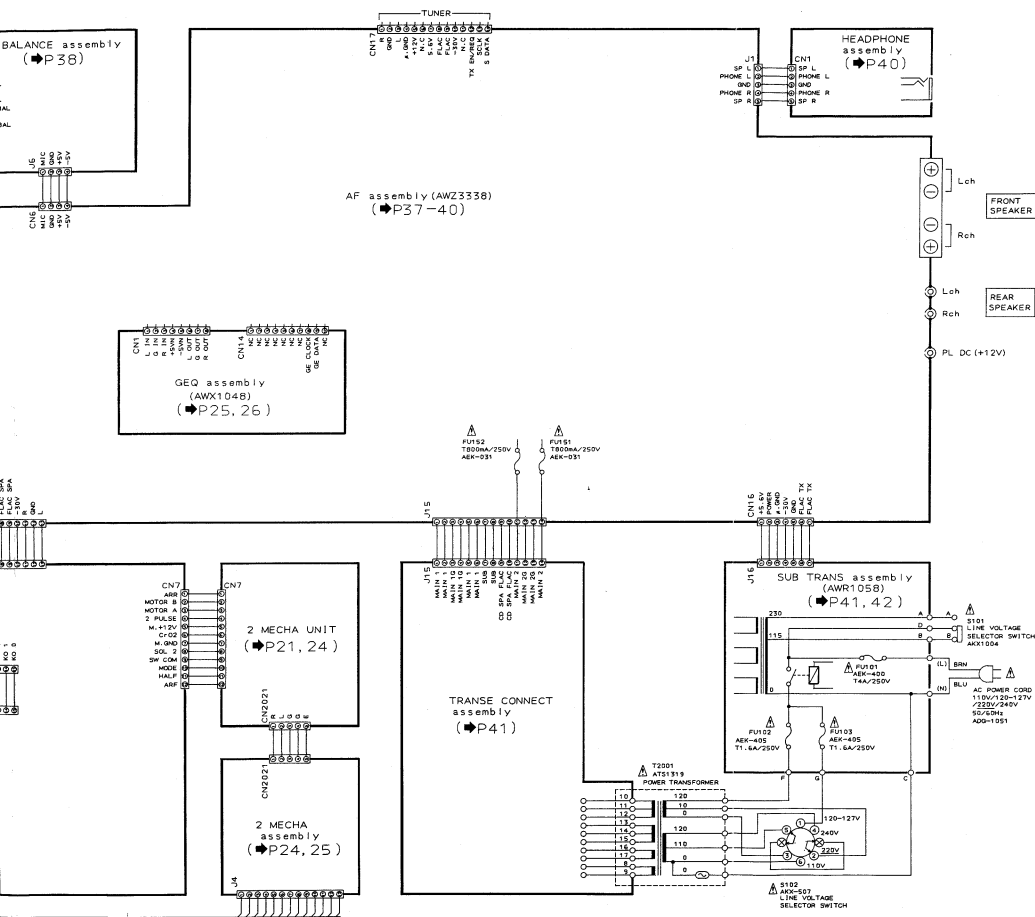
Note :
When removing the chassis unit to replace the arm unit (EXX1003), the chassis unit can be easily removed by cutting the (A) part of No.55 (1/2) with a nippers, etc. (see following illustration).



2. SCHEMATIC DIAGRAM AND P.C.BOARDS CONNECTION DIAGRAM

2.1 OVER ALL SCHEMATIC DIAGRAM





1. RESISTORS:
Indicated in Ω , $k\Omega$, $M\Omega$, $\pm 5\%$ tolerance unless otherwise noted $k: k\Omega$,
 $M: M\Omega$, $F: \pm 1\%$, $G: \pm 2\%$, $K: \pm 10\%$, $M: \pm 20\%$ tolerance

2. CAPACITORS:
Indicated in capacity (μF)/voltage (V) unless otherwise noted $p: pF$
Indication without voltage is 50V except electrolytic capacitor.

3. VOLTAGE, CURRENT:

Signal voltage at (45 W + 45 W 80) output (1kHz)
DC voltage (V) at no input signal
Value in () is DC voltage at rated power.
mA: DC current at no input signal

4. OTHERS:

Signal route.
Adjusting point.
The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
marked capacitors and resistors have parts numbers.

This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

SWITCHES:

LINE VOLTAGE SELECTOR SWITCH

S101 AKX1004
S102 AKX-507

DISPLAY assembly

S1504 POWER	S1541 SHARP
S1505 VIDEO	S1542 /E
S1506 CD DIRECT	S1543 /C
S1507 FADE/EINE	S1544 /A
S1510 AI MEMO	S1546 PCM/PRESET
S1511 AI BGM	S1547 F UP
S1512 PHONO	S1548 LEVEL DOWN
S1513 2 REC MUTE	S1549 ACTIVE LOUNNESS
S1514 DISCO	
S1516 SURR	
S1517 TAPE	
S1518 2 REC	
S1519 X2 COPY	
S1522 CD	
S1523 TX	
S1524 2 PAUSE	
S1525 X1 COPY	
S1528 DOLBY NR ON/OFF	
S1529 COW-A-B	
S1530 MILD	
S1531 VIVID	
S1532 FLAY	
S1533 /D	
S1534 /B	
S1535 MEMOLY	
S1536 DIGITAL SURR	
S1537 EQ ON/OFF	
S1538 LEVEL UP	
S1539 F DOWN	
S1540 WARM	

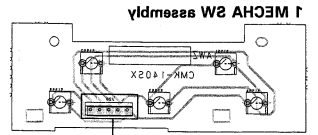
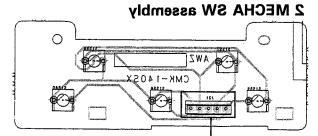
1 MECH SW assembly

S1551 1 REV
S1552 1 PLAY
S1553 1 STOP
S1554 1 REV
S1555 1 FF

2 MECH SW assembly

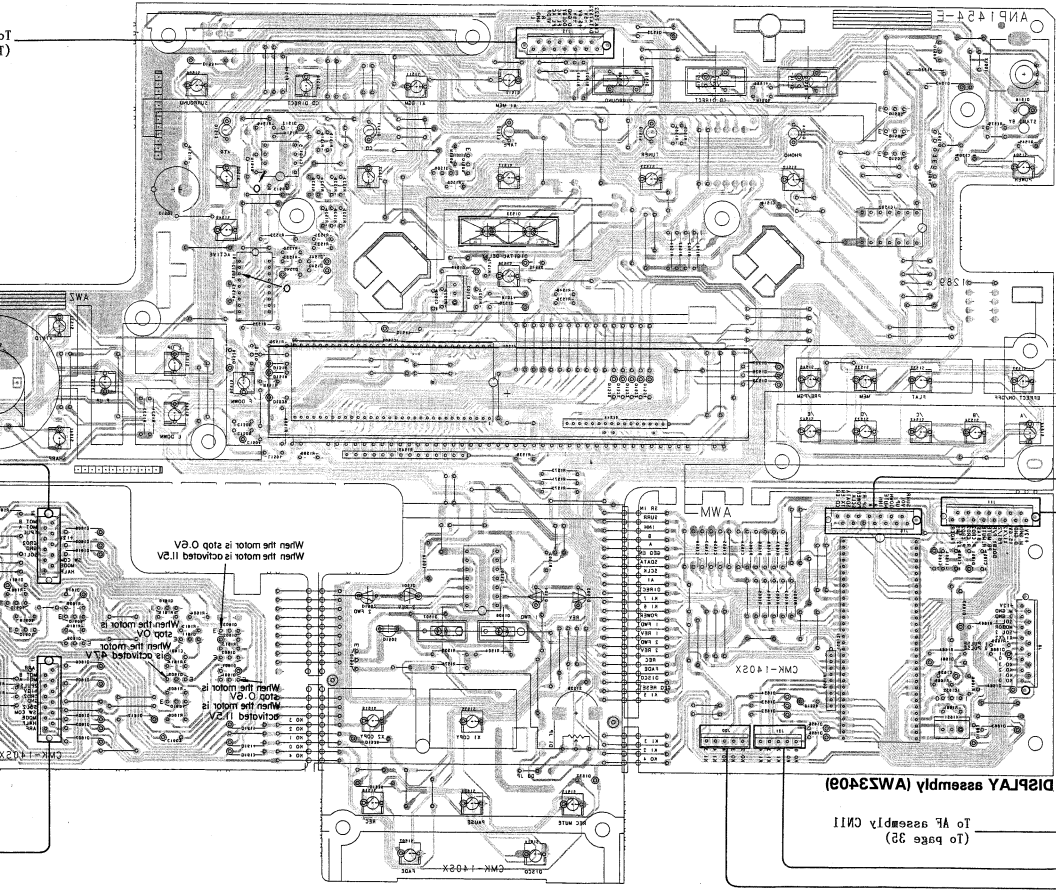
S1556 2 STOP
S1557 2 REV
S1558 2 PLAY
S1559 2 REV
S1560 2 FF

2 S MECH AHA UNIT (EKK5010)
2 MECH A SW assembly, 1 MECH A UNIT (EKK5050)
2 S DISPLAY (AW3340B), 1 MECH A SW.



To AF assembly CN10
(To page 32)

DISPLAY assembly (AW3340B)
To AF assembly CN11
(To page 32)



When the motor is stop 0.6V
When the motor is activated 11.2V

When the motor is stop 0.6V
When the motor is activated 11.2V

When the motor is stop 0.6V
When the motor is activated 11.2V

IC125 IC121
IC1205 IC1207
01205 - 01207
IC1201
01201
IC1202
01202
IC1210 IC1208
01210 01208
IC1204
01204
01208 - 01211

Q1509 Q1508

ICI505

IC1504

Q1510 IC1509

IC1501

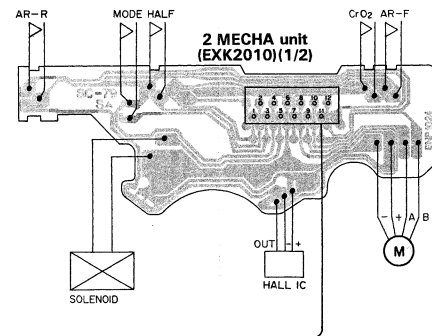
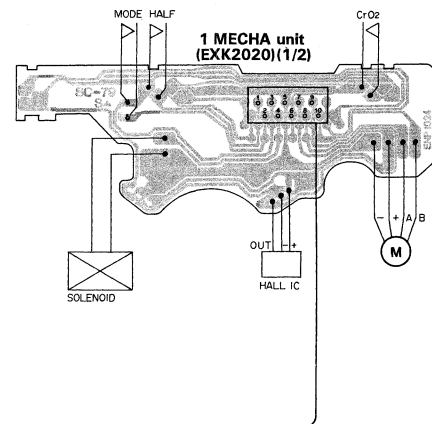
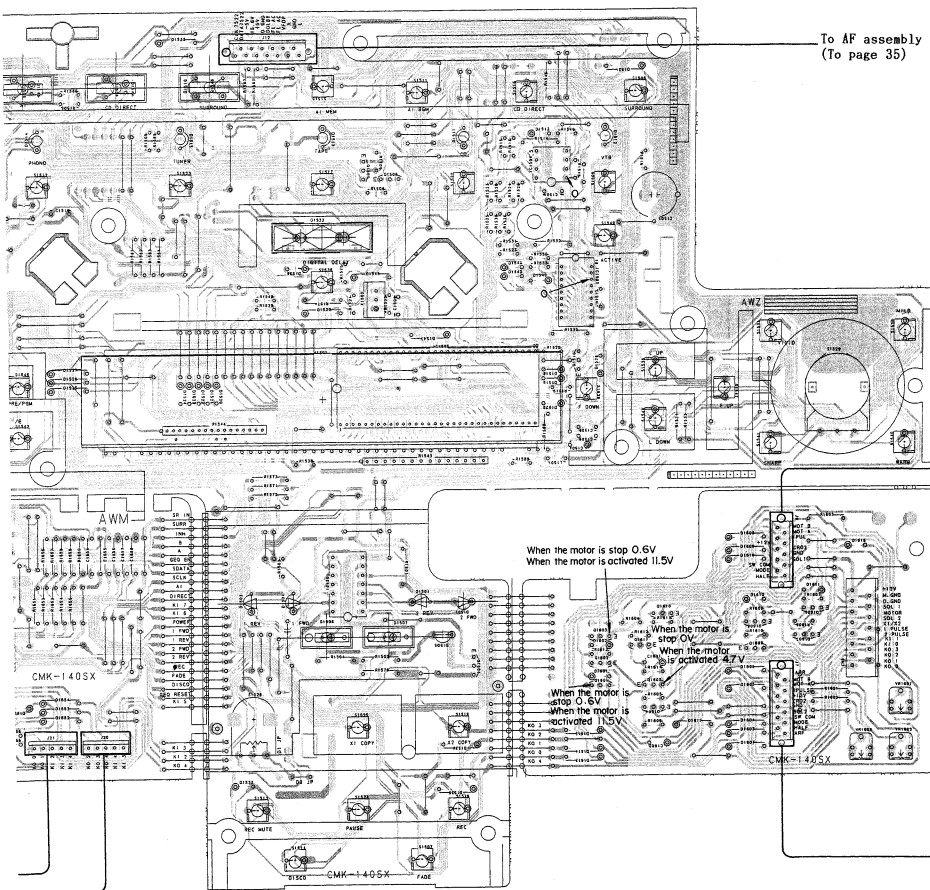
Q1501

Q1601-Q1605

Q1606-Q1611

VR1601 – VR1603

— To AF assembly CN12
(To page 35)



To AF assembly CH12
(To page 39)To AF assembly
CH11
(To page 37)To AF assembly
CH10
(To page 37)

DISPLAY assembly (AWZ3951)

IC1652: RESET

IC1651: DECK AMP CONTROL
MICRO COMPUTERBURROUGHS
DIRECT

IC1653: 2000

IC1654: 2000

IC1655: 2000

IC1656: 2000

IC1657: 2000

IC1658: 2000

IC1659: 2000

IC1660: 2000

IC1661: 2000

IC1662: 2000

IC1663: 2000

IC1664: 2000

IC1665: 2000

IC1666: 2000

IC1667: 2000

IC1668: 2000

IC1669: 2000

IC1670: 2000

IC1671: 2000

IC1672: 2000

IC1673: 2000

IC1674: 2000

IC1675: 2000

IC1676: 2000

IC1677: 2000

IC1678: 2000

IC1679: 2000

IC1680: 2000

IC1681: 2000

IC1682: 2000

IC1683: 2000

IC1684: 2000

IC1685: 2000

IC1686: 2000

IC1687: 2000

IC1688: 2000

IC1689: 2000

IC1690: 2000

IC1691: 2000

IC1692: 2000

IC1693: 2000

IC1694: 2000

IC1695: 2000

IC1696: 2000

IC1697: 2000

IC1698: 2000

IC1699: 2000

IC1700: 2000

IC1701: 2000

IC1702: 2000

IC1703: 2000

IC1704: 2000

IC1705: 2000

IC1706: 2000

IC1707: 2000

IC1708: 2000

IC1709: 2000

IC1710: 2000

IC1711: 2000

IC1712: 2000

IC1713: 2000

IC1714: 2000

IC1715: 2000

IC1716: 2000

IC1717: 2000

IC1718: 2000

IC1719: 2000

IC1720: 2000

IC1721: 2000

IC1722: 2000

IC1723: 2000

IC1724: 2000

IC1725: 2000

IC1726: 2000

IC1727: 2000

IC1728: 2000

IC1729: 2000

IC1730: 2000

IC1731: 2000

IC1732: 2000

IC1733: 2000

IC1734: 2000

IC1735: 2000

IC1736: 2000

IC1737: 2000

IC1738: 2000

IC1739: 2000

IC1740: 2000

IC1741: 2000

IC1742: 2000

IC1743: 2000

IC1744: 2000

IC1745: 2000

IC1746: 2000

IC1747: 2000

IC1748: 2000

IC1749: 2000

IC1750: 2000

IC1751: 2000

IC1752: 2000

IC1753: 2000

IC1754: 2000

IC1755: 2000

IC1756: 2000

IC1757: 2000

IC1758: 2000

IC1759: 2000

IC1760: 2000

IC1761: 2000

IC1762: 2000

IC1763: 2000

IC1764: 2000

IC1765: 2000

IC1766: 2000

IC1767: 2000

IC1768: 2000

IC1769: 2000

IC1770: 2000

IC1771: 2000

IC1772: 2000

IC1773: 2000

IC1774: 2000

IC1775: 2000

IC1776: 2000

IC1777: 2000

IC1778: 2000

IC1779: 2000

IC1780: 2000

IC1781: 2000

IC1782: 2000

IC1783: 2000

IC1784: 2000

IC1785: 2000

IC1786: 2000

IC1787: 2000

IC1788: 2000

IC1789: 2000

IC1790: 2000

IC1791: 2000

IC1792: 2000

IC1793: 2000

IC1794: 2000

IC1795: 2000

IC1796: 2000

IC1797: 2000

IC1798: 2000

IC1799: 2000

IC1800: 2000

IC1801: 2000

IC1802: 2000

IC1803: 2000

IC1804: 2000

IC1805: 2000

IC1806: 2000

IC1807: 2000

IC1808: 2000

IC1809: 2000

IC1810: 2000

IC1811: 2000

IC1812: 2000

IC1813: 2000

IC1814: 2000

IC1815: 2000

IC1816: 2000

IC1817: 2000

IC1818: 2000

IC1819: 2000

IC1820: 2000

IC1821: 2000

IC1822: 2000

IC1823: 2000

IC1824: 2000

IC1825: 2000

IC1826: 2000

IC1827: 2000

IC1828: 2000

IC1829: 2000

IC1830: 2000

IC1831: 2000

IC1832: 2000

IC1833: 2000

IC1834: 2000

IC1835: 2000

IC1836: 2000

IC1837: 2000

IC1838: 2000

IC1839: 2000

IC1840: 2000

IC1841: 2000

IC1842: 2000

IC1843: 2000

IC1844: 2000

IC1845: 2000

IC1846: 2000

IC1847: 2000

IC1848: 2000

IC1849: 2000

IC1850: 2000

IC1851: 2000

IC1852: 2000

IC1853: 2000

IC1854: 2000

IC1855: 2000

IC1856: 2000

IC1857: 2000

IC1858: 2000

IC1859: 2000

IC1860: 2000

IC1861: 2000

IC1862: 2000

IC1863: 2000

IC1864: 2000

IC1865: 2000

IC1866: 2000

IC1867: 2000

IC1868: 2000

IC1869: 2000

IC1870: 2000

IC1871: 2000

IC1872: 2000

IC1873: 2000

IC1874: 2000

IC1875: 2000

IC1876: 2000

IC1877: 2000

IC1878: 2000

IC1879: 2000

IC1880: 2000

IC1881: 2000

IC1882: 2000

IC1883: 2000

IC1884: 2000

IC1885: 2000

IC1886: 2000

IC1887: 2000

IC1888: 2000

IC1889: 2000

IC1890: 2000

IC1891: 2000

IC1892: 2000

IC1893: 2000

IC1894: 2000

IC1895: 2000

IC1896: 2000

IC1897: 2000

IC1898: 2000

IC1899: 2000

IC1900: 2000

IC1901: 2000

IC1902: 2000

IC1903: 2000

IC1904: 2000

IC1905: 2000

IC1906: 2000

IC1907: 2000

IC1908: 2000

IC1909: 2000

IC1910: 2000

IC1911: 2000

IC1912: 2000

IC1913: 2000

IC1914: 2000

IC1915: 2000

IC1916: 2000

IC1917: 2000

IC1918: 2000

IC1919: 2000

IC1920: 2000

IC1921: 2000

IC1922: 2000

IC1923: 2000

IC1924: 2000

IC1925: 2000

IC1926: 2000

IC1927: 2000

IC1928: 2000

IC1929: 2000

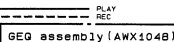
IC1930: 2000

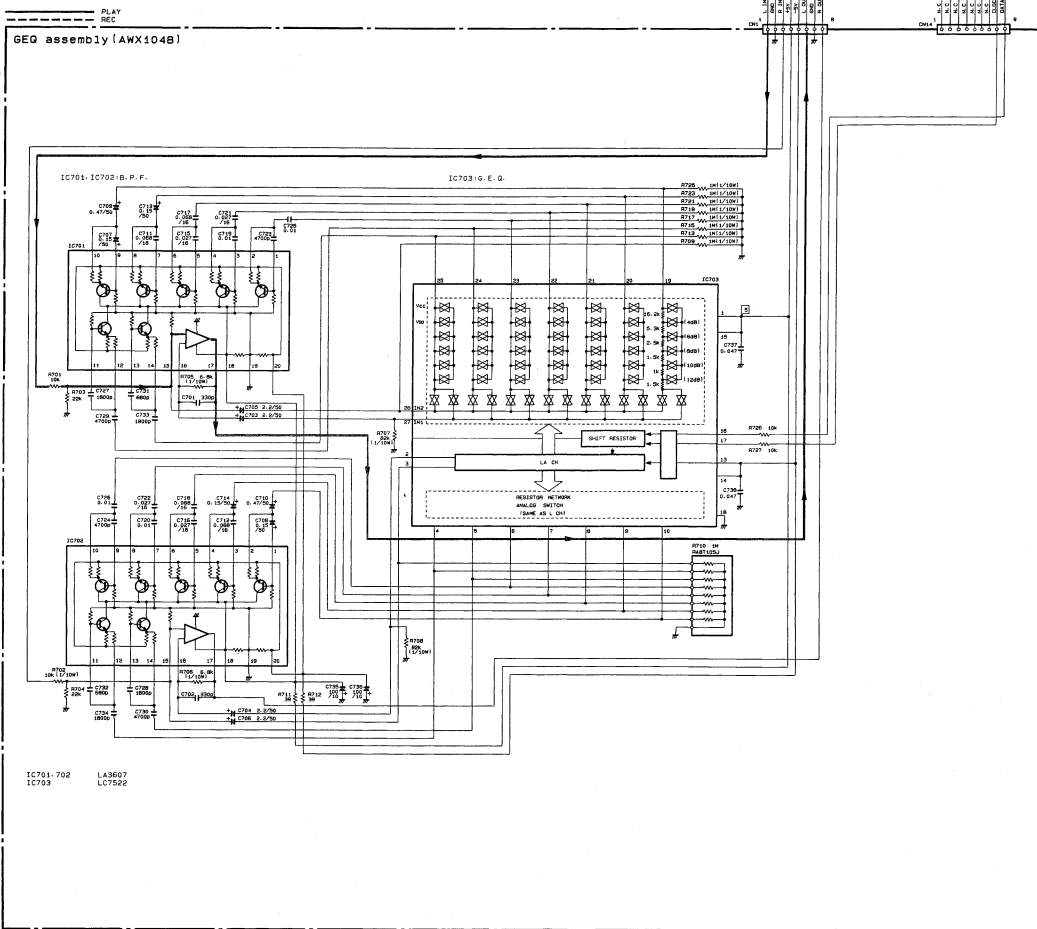
IC1931: 2000

IC1932: 2000















D





NOTE

1. This P.C.B. connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown.

P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
		Transistor
		Radiator type transistor
		Diode
		Resistor
		Capacitor (Polarity)
		Capacitor (Non-polarity)

P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed capacitor

3. The capacitor terminal marked with \oplus (double circles) shows negative terminal.
4. The diode terminal marked with \oplus (double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

To AF assembly
(To page 35)

To AF assembly
(To page 35)

To AF assembly CN4
(To page 35)

To AF assembly CN5
(To page 35)

1 MECHA unit
(EXK2020) (2/2)

HEAD

HEAD

**2 MECHA unit
(EXK2010)(2/2)**

2 MECHA assembly

28

1 MECHA assembly

A

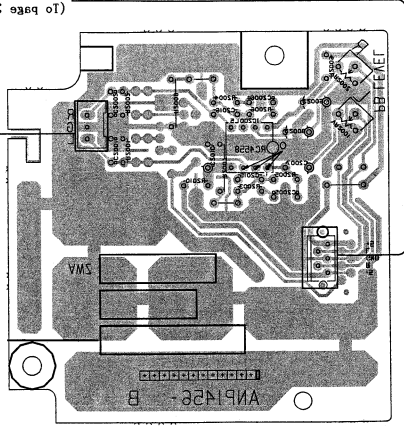
3

C

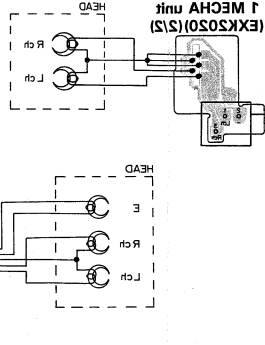
D

1

1 MECHA assembly



(To page 32)
To AF assembly CND

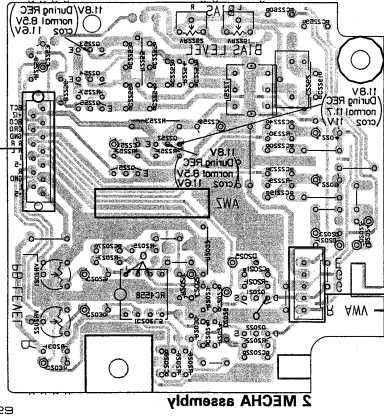


(EXK2010) (2\2) 2 MECHA unit

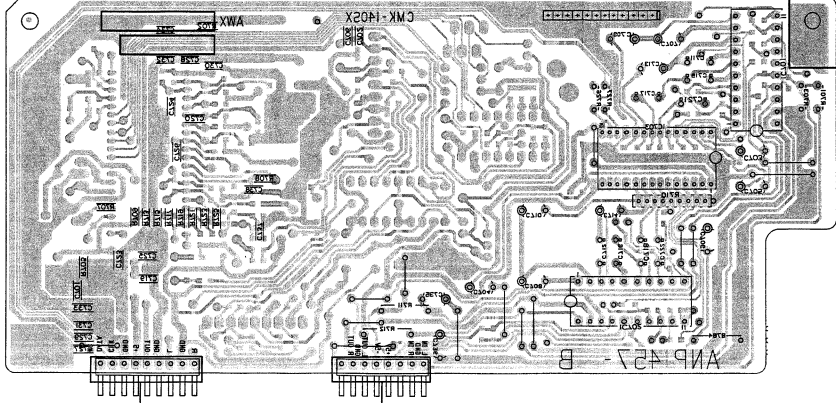
(EXK5050) (2/2)

(To page 32)

(To page 32)
To AF assembly CNA



2 MECHA assembly



GEQ assembly (A1048)

(138)

(To page 18)

To DISPLAY assembly 111

(To page 27)
To IMCHYA assembly 12

(To page 18)
To DISPLAY assembly 110

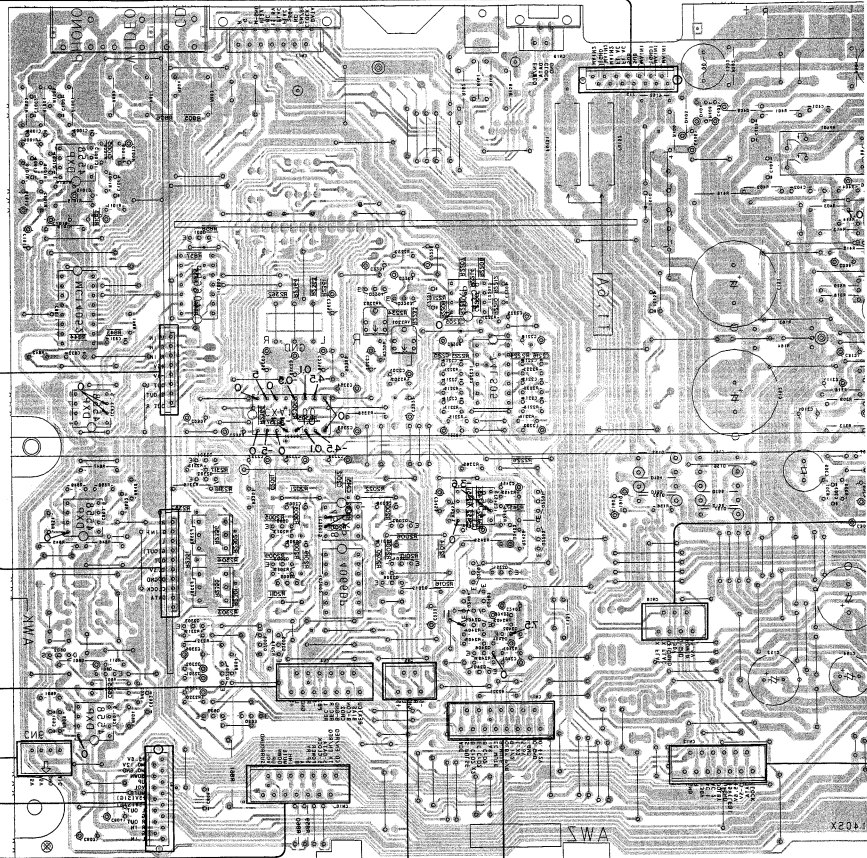
(To page 28)
To SMCHYA assembly 14

(To page 28)
To GED assembly

(To page 28)
To GED assembly

VR assembly

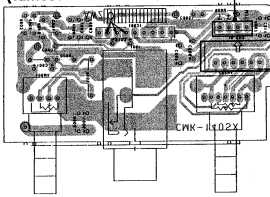
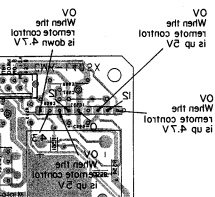
MIC BALANCE assembly



VRSSOI VRSSOI

05401-05406
05501 05505 05321 IC5421 IC5001 IC5005 05001-05008
IC805 0805 IC801 0801 0805
IC803 0803 IC801 0801 0805
IC1001 0801

(To page 43)
To TRANS CONNECT assembly 112



A

B

C

D

(8E33WA) yldmssg FA

To DISPLAY assembly 111

To IMCHA assembly 15

05401-0540E 05501 05505 05531 1C5421 1C5001 1C5005 055001-05500A 0803 0805 05301-05304 1C805 0801 1C833 1C801 1C1001

VN61425-C

2.4 AF (AWZ3338), HEAD PHONE,
VR and MIC BALANCE assembly

A

- NOTE
1. This P.C.B. connection diagram is viewed from the parts mounted side.
 2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
		Transistor
		Radiator type transistor
		Diode
		Resistor
		Capacitor (Polarized)
		Capacitor (Nonpolarized)

Others

P.C.B. pattern diagram indication	Part Name
	IC
	Switch
	Relay
	Coil
	Filter
	Variable resistor or Semi-fixed resistor

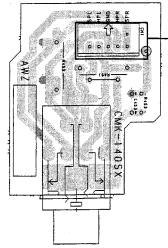
3. The capacitor terminal marked with @ (double circle) shows negative terminal.
4. The diode terminal marked with @ (double circle) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

C

To SUB TRANS assembly CN16
(To page 43)

To DISPLAY assembly J12
(To page 19)

HEAD PHONE assembly



D

AF assembly (AWZ3338)

To DISPLAY assembly J11
(To page 18)

To IMECHA assembly J5
(To page 27)

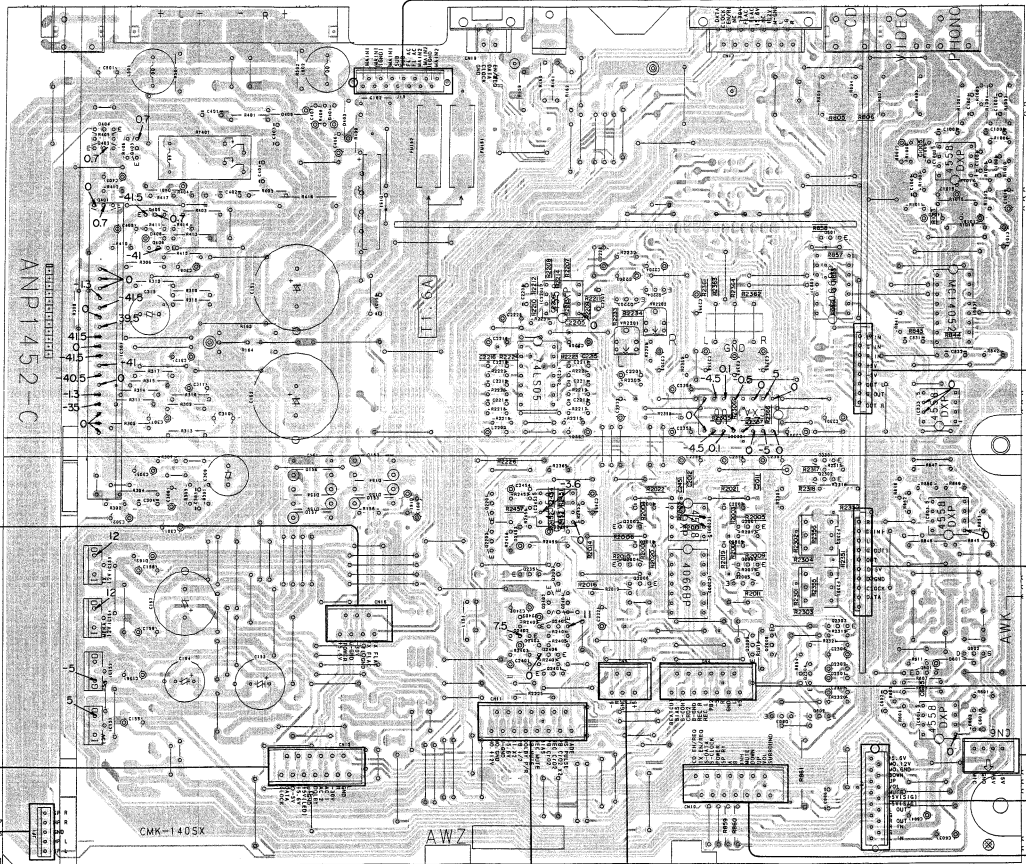
Q401-Q406
IC301
IC153 IC154
IC152 IC151

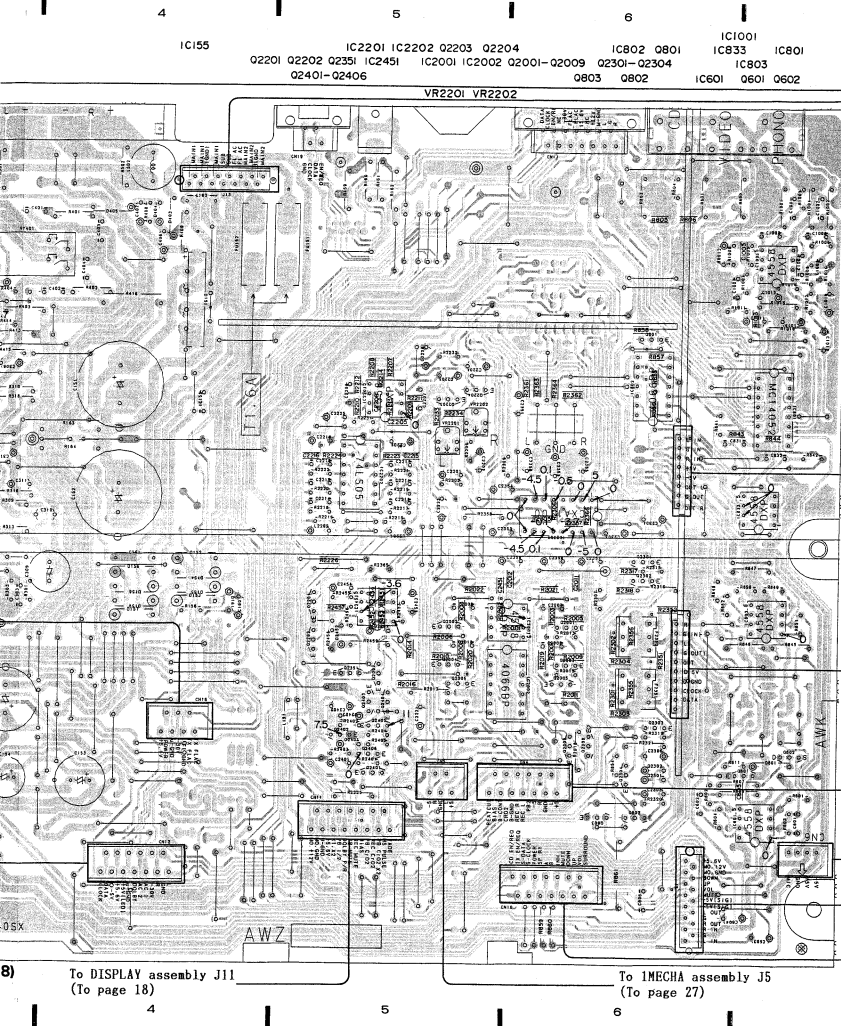
IC155

IC2201 IC2202 02203 02204
02201 02202 02351 IC2451 IC2001 IC2002 02001-02009 02301-02304
02401-02406 0803 0802

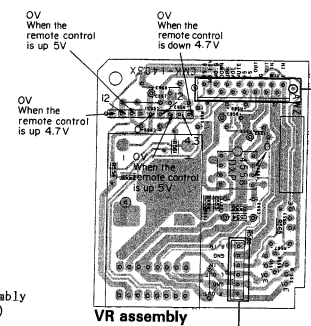
IC1001
IC833 IC801
IC803
IC601 0601 0602

VR2201 VR2202





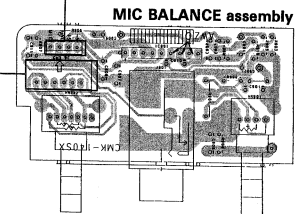
To TRANS CONNECT assembly J15
(To page 43)



To GEQ assembly
(To page 28)

To GEQ assembly
(To page 28)

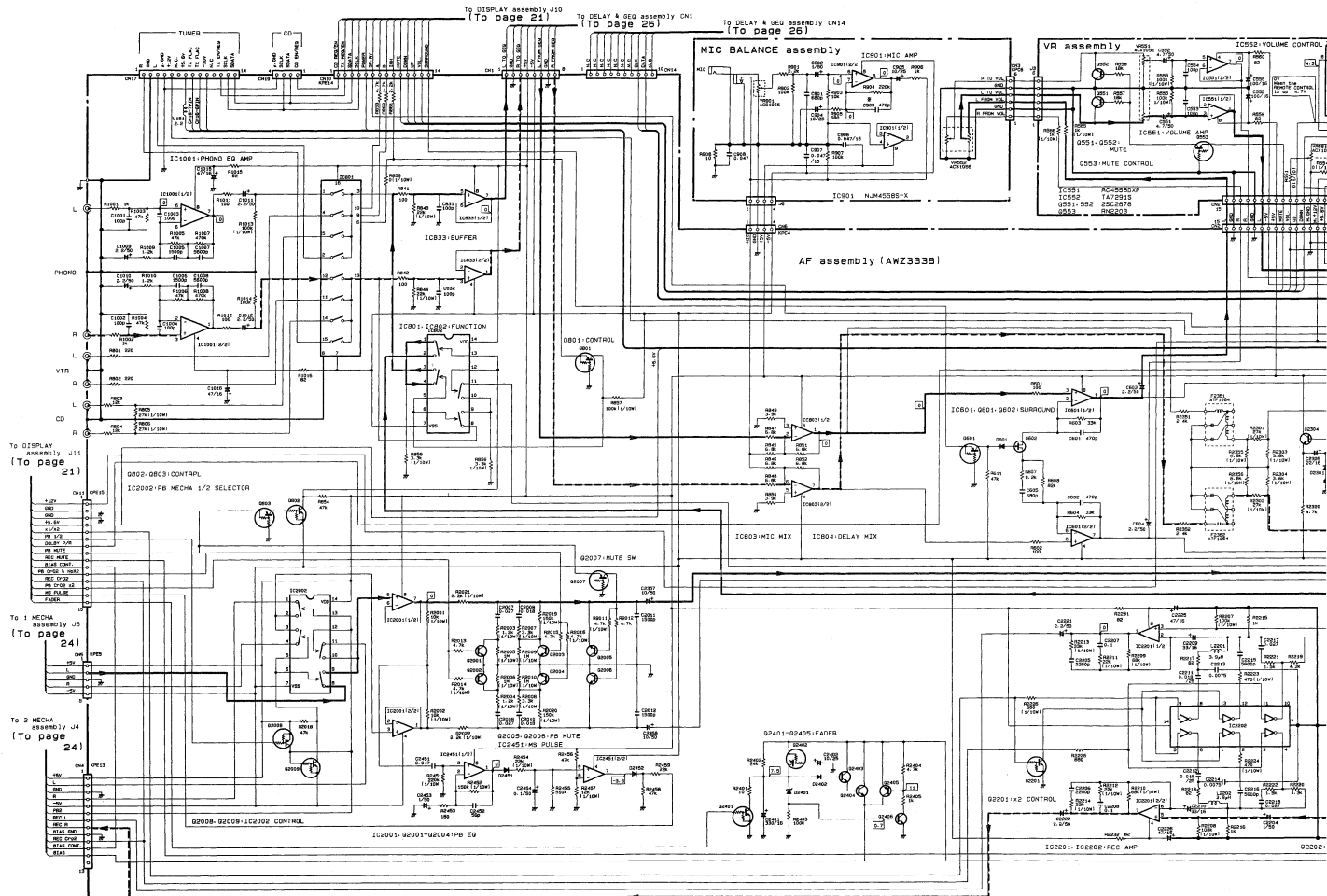
To ZMECHA assembly J4
(To page 28)

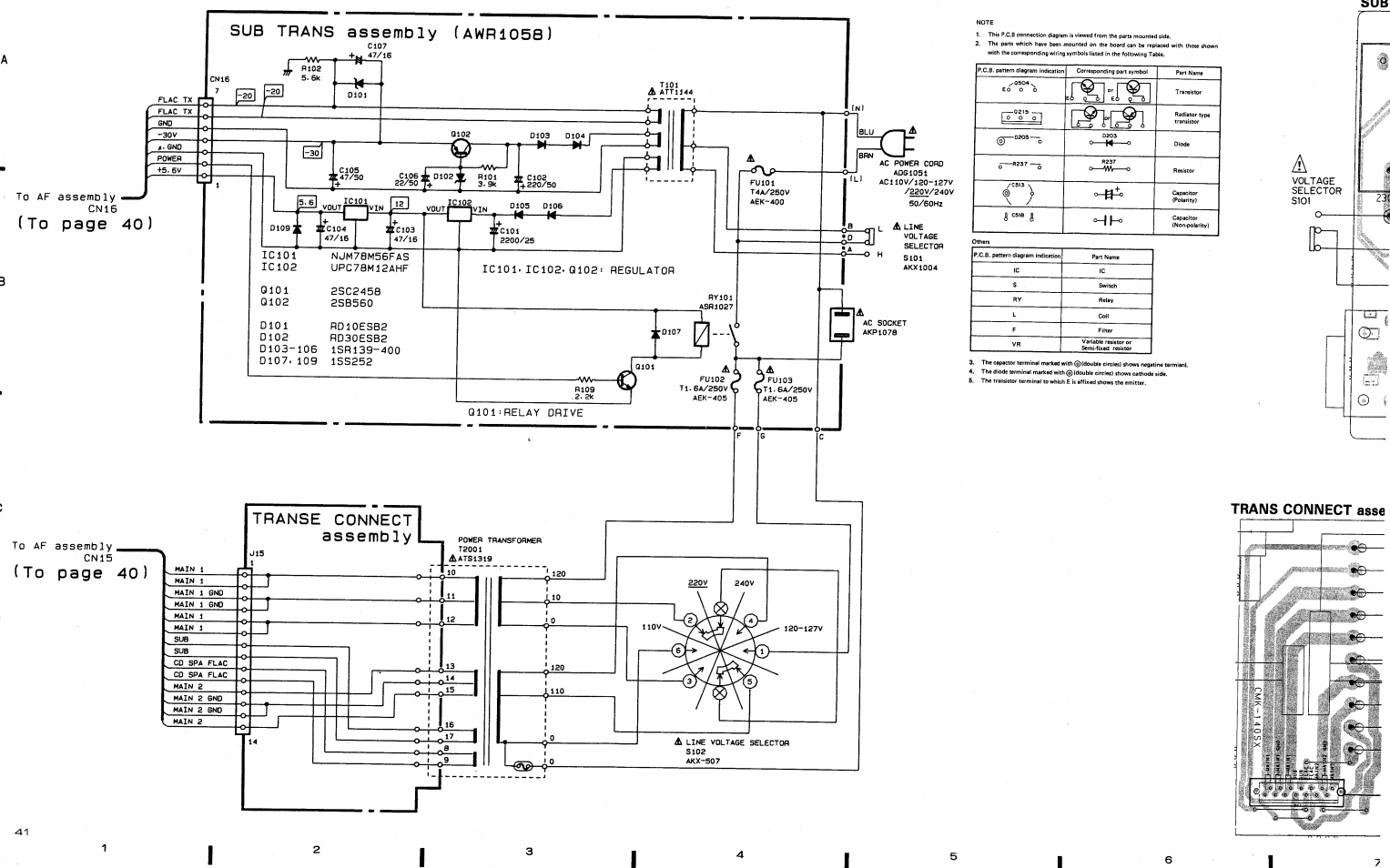














To DISPLAY assembly J10
(To page 18)

To IMECHA assembly J5
(To page 27)

To DISPLAY assembly J11
(To page 18)

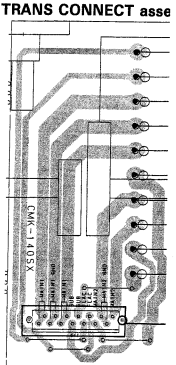




P.C.B. pattern design indication	Corresponding part symbol	Part Name
		Transistor
		Radiator type transistor
		Diode
		Resistor
		Capacitor (Polarity)
		Capacitor (Nonpolarity)

P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or

3. The capacitor terminal marked with \ominus (double circles) shows negative terminal.
4. The diode terminal marked with \ominus (double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.



7 |



17

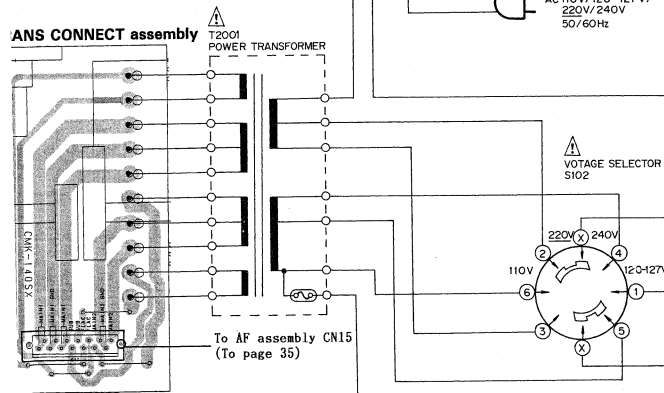
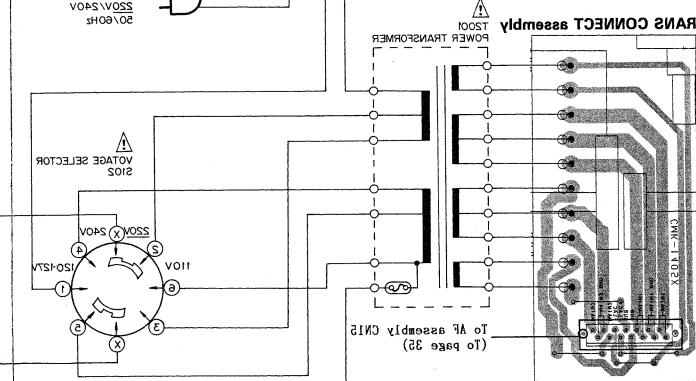


Table 1



11



3. P.C.B 's PARTS LIST

NOTES:

- Parts without part number cannot be supplied.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560 Ω	56×10^1	561.....	RD14PS Δ Δ Δ J
47k Ω	47×10^3	473.....	RD14PS Δ Δ Δ J
0.5 Ω	0R5.....		RN2H Δ Δ Δ K
1 Ω	010.....		RS1P Δ Δ Δ K

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω	562×10^1	5621.....	RN14SR Δ Δ Δ Δ F
----------------	-------------------	-----------	--

Mark No.	Description	Parts No.	Mark No.	Description	Parts No.
© AF assembly (AWZ3338)					
SEMICONDUCTORS					
IC1001	OP-AMP IC	RC4558DXP	Q404	TRANSISTOR	RN1203
IC151	REGULATOR IC	NJM78M05FAS	Q405	TRANSISTOR	2SC2458
IC152	REGULATOR IC	NJM79M05FA	Q406	TRANSISTOR	2SA1048
IC153, 154	REGULATOR IC	UPC7812AHF	Q601	TRANSISTOR	RN2203
IC155	IC PROTECTOR	ICP-N75	Q602	N-FET	2SK246
IC2001	OP-AMP IC	RC4558DXP	Q801	TRANSISTOR	RN2203
IC2002	LOGIC IC	TC4066BP	Q802	TRANSISTOR	RN1203
IC2201	OP-AMP IC	RC4558DXP	Q803	TRANSISTOR	RN2203
IC2202	LOGIC IC	SN74LS05N	D151	DIODE	D3SBA20 (A)
IC2302	DOLBY-B IC	CXA1100P	D152-159	DIODE	1SR139-400
IC2451	OP-AMP IC	RC4558DXP	D161	ZENER DIODE	RD6.2ESB2
IC301	AUDIO IC	STK4162-2GP	D162	DIODE	1SS252
IC601	OP-AMP IC	RC4558DXP	D2301, 2302	DIODE	1SS252
IC801	LOGIC IC	MC14052BCP	D2401	ZENER DIODE	RD6.8ESB
IC802	LOGIC IC	TC4066BP	D2402	DIODE	1SS252
IC803, 833	OP-AMP IC	RC4558DXP	D2451, 2452	DIODE	1SS252
Q2001-2204	TRANSISTOR	2SC2458	D401	ZENER DIODE	RD22EB
Q2005, 2006	TRANSISTOR	2SC2878	D403	DIODE	1SR139-400
Q2007	TRANSISTOR	RN2203	D404	DIODE	1SS252
Q2008	TRANSISTOR	RN2201	D405	ZENER DIODE	RD6.8ESB2
Q2009, 2201	TRANSISTOR	RN1201	D406, 601	DIODE	1SS252
Q2202	TRANSISTOR	RN2203	RELAY		
Q2203, 2204	TRANSISTOR	2SC2878	RY401	RELAY	ASR1035
Q2301-2304	TRANSISTOR	2SC2458	COILS		
Q2351	TRANSISTOR	RN2203	F2351, 2352	DOLBY FILTER	ATF1064
Q2401	TRANSISTOR	DTC124ES	L151	AXIAL INDUCTOR	LAU2R2K
Q2402	TRANSISTOR	DTA124ES	L2201, 2202	INDUCTOR	LTA392J
Q2403, 2404	TRANSISTOR	2SC2603	L501, 502	COIL	ATH-133
Q2405	TRANSISTOR	2SA1115	CAPACITORS		
Q2406	TRANSISTOR	2SC2458	C1001-1004	CERAMIC CAPACITOR	CCCSL101J50
Q401-403	TRANSISTOR	2SC2458	C1005	CERAMIC CAPACITOR	CKQYB152K50
			C1006	CERAMIC CAPACITOR	CKDYB152K50
			C1007, 1008	CERAMIC CAPACITOR	CKDYB562K50

Mark No.	Description	Parts No.
C1009-1012	ELECTR.CAPACITOR	CEAS2R2M50
C1015, 1016	ELECTR.CAPACITOR	CEAS470M16
C151, 152	ELECTROLYTIC CAPACIT (3300/50)	ACH1017
C153	ELECTR.CAPACITOR	CEAS222M16
C154	ELECTR.CAPACITOR	CEAS102M16
C155, 156	ELECTR.CAPACITOR	CEAS220M16
C157	ELECTR.CAPACITOR	CEAS222M25
C158, 159	ELECTR.CAPACITOR	CEAS220M25
C160	ELECTR.CAPACITOR	CEAS100M25
C161	CERAMIC CAPACITOR	CKDYB103K500
C162	CKA (0.01/AC250V)	ACG1005
C2007, 2008	MYLOR FILM CAPACITOR	CQMA273J50
C2009, 2010	MYLOR FILM CAPACITOR	CQMA183J50
C2011, 2012	CERAMIC CAPACITOR	CKSQYB152K50
C2201-2204	ELECTR.CAPACITOR	CEAS010M50
C2205, 2206	CHIP CAPACITOR	CKSQYB222K50
C2207, 2208	AUDIO FILM CAPACITOR	CFTXA104J50
C2209, 2210	ELECTR.CAPACITOR	CEAS330M16
C2211, 2212	CERAMIC CAPACITOR	CKCXY183M25
C2213, 2214	MYLOR FILM CAPACITOR	CQMA475J50
C2215, 2216	CERAMIC CAPACITOR	CKSQYB562K50
C2217, 2218	MYLOR FILM CAPACITOR	CQMA273J50
C2221, 2222	ELECTR.CAPACITOR	CEAS2R2M50
C2225, 2226	ELECTR.CAPACITOR	CEAS470M16
C2303, 2304	ELECTR.CAPACITOR	CEAS010M50
C2305	ELECTR.CAPACITOR	CEAS220M16
C2306	ELECTR.CAPACITOR	CEAS220M25
C2351, 2352	ELECTR.CAPACITOR	CEAS100M50
C2353, 2354	ELECTR.CAPACITOR	CEAS2R2M50
C2355	ELECTR.CAPACITOR	CEAS101M10
C2356-2359	ELECTR.CAPACITOR	CEAS100M50
C2401	ELECTR.CAPACITOR	CEAS331M16
C2402	ELECTR.CAPACITOR	CEAS100M25
C2451	CERAMIC CAPACITOR	CKSQYB473K50
C2452	CERAMIC CAPACITOR	CSQCH560J50
C2453	ELECTR.CAPACITOR	CEAS010M50
C2454	ELECTR.CAPACITOR	CEAS0R1M50
C301, 302	ELECTR.CAPACITOR	CEAS2R2M50
C303, 304	CERAMIC CAPACITOR	CKMYB331K50
C305, 306	ELECTR.CAPACITOR	CEAS220M50
C307, 308	ELECTR.CAPACITOR	CEAS101M25
C309	ELECTR.CAPACITOR	CEANP220M50
C310	ELECTR.CAPACITOR	CEANP100M50
C311, 312	ELECTR.CAPACITOR	CEAS100M50
C313	ELECTROLYTIC CAPACIT (47/50)	ACH1143
C401-404	CERAMIC CAPACITOR	CKCYF473Z50

Mark No.	Description	Parts No.
C405	ELECTR.CAPACITOR	CEAS221M16
C406	ELECTR.CAPACITOR	CEAS330M25
C407	ELECTR.CAPACITOR	CEAS221M16
C408	ELECTR.CAPACITOR	CEAS100M50
C501	ELECTR.CAPACITOR (10/100)	ACH1144
C601, 602	CERAMIC CAPACITOR	CKMYB471K50
C603, 604	ELECTR.CAPACITOR	CEAS2R2M50
C605	CERAMIC CAPACITOR	CKSQYB681K50
C606	CERAMIC CAPACITOR	CKCYF473Z50
C831, 832	CERAMIC CAPACITOR	CCCSL101J50

RESISTORS

Mark No.	Description	Parts No.
VR2201, 2202	VR	VRTB6VS222
R1013	CHIP RESISTOR	RS1/10S104J
R159-162	CARBON FILM RESISTOR	RD1/4PM100J
R163, 164	METAL OXIDE RESISTOR	RS2LMFR22J
R2001, 2002	CHIP RESISTOR	RS1/10S103J
R2003, 2004	CHIP RESISTOR	RS1/10S122J
R2005, 2006	CHIP RESISTOR	RS1/10S105J
R2007, 2008	CHIP RESISTOR	RS1/10S332J
R2009, 2010	CHIP RESISTOR	RS1/10S105J
R2011, 2014	CHIP RESISTOR	RS1/10S472J
R2016	CHIP RESISTOR	RS1/10S472J
R2019, 2020	CHIP RESISTOR	RS1/10S154J
R2021, 2022	CHIP RESISTOR	RS1/10S222J
R2207, 2208	CHIP RESISTOR	RS1/10S104J
R2209, 2210	CHIP RESISTOR	RS1/10S683J
R2211, 2212	CHIP RESISTOR	RS1/10S223J
R2213, 2214	CHIP RESISTOR	RS1/10S333J
R2223, 2224	CHIP RESISTOR	RS1/10S471J
R2226	CHIP RESISTOR	RS1/10S681J
R2233, 2234	CHIP RESISTOR	RS1/10S102J
R2301, 2302	CHIP RESISTOR	RS1/10S273J
R2303, 2304	CHIP RESISTOR	RS1/10S362J
R2305, 2306	CHIP RESISTOR	RS1/10S103J
R2317, 2318	CHIP RESISTOR	RS1/10S222J
R2351, 2352	CHIP RESISTOR	RS1/10S242J
R2355, 2356	CHIP RESISTOR	RS1/10S682J
R2357	CHIP RESISTOR	RS1/10S433J
R2361, 2362	CHIP RESISTOR	RS1/10S222J
R2363, 2364	CHIP RESISTOR	RS1/10S273J
R2366	CHIP RESISTOR	RS1/10S103J
R2451	CHIP RESISTOR	RS1/10S224J
R2452	CHIP RESISTOR	RS1/10S154J
R2454	CHIP RESISTOR	RS1/10S223J
R2457	CHIP RESISTOR	RS1/10S123J
R305, 306	CARBON FILM RESISTOR	RD1/4PM104J

Mark No.	Description	Parts No.	Mark No.	Description	Parts No.
R309-312	CARBON FILM RESISTOR	RD1/4PM222J	© GEQ assembly (AWX1048)		
R313	CARBON FILM RESISTOR	RD1/4PMFL471J	The GEQ assembly (AWX1048) is a part of AF assembly (AWZ3338).		
R314	CARBON FILM RESISTOR	RD1/4PMFL101J	SEMICONDUCTORS		
R315	CARBON FILM RESISTOR	RD1/4PM1192J	IC701, 702	GEQ IC	LA3607
R316, 317	CARBON FILM RESISTOR	RD1/4PMFL222J	IC703	GEQ EVR IC	LC7522
R318	CARBON FILM RESISTOR	RD1/4PMFL101J	CAPACITORS		
R401, 402	CARBON FILM RESISTOR	RD1/4PM100J	C701, 702	CERAMIC CAPACITOR	CCSQSL331J50
R409	CARBON FILM RESISTOR	RD1/2PM182J	C703-706	ELECTR. CAPACITOR	CEAS2R2M50
R416	METAL OXIDE RESISTOR	RS2LMF331J	C707, 708	ELECTROLYTIC CAPACIT	CEASR15M50
R417	METAL OXIDE RESISTOR	RS2LMF391J	C709, 710	ELECTR. CAPACITOR	CEASR47M50
R501, 502	CARBON FILM RESISTOR	RD1/4PMFL100J	C711, 712	CERAMIC CAPACITOR	CKCYX683M16
R805, 806	CHIP RESISTOR	RS1/10S273J	C713, 714	ELECTROLYTIC CAPACIT	CEASR15M50
R843, 844	CHIP RESISTOR	RS1/10S223J	C715, 716	CERAMIC CAPACITOR	CKCYX273M16
R855, 856	CHIP RESISTOR	RS1/10S332J	C717, 718	CERAMIC CAPACITOR	CKCYX683M16
R857	CHIP RESISTOR	RS1/10S104J	C719, 720	CERAMIC CAPACITOR	CKSQYB103K50
R858	CHIP RESISTOR	RS1/10S000J	C721, 722	CERAMIC CAPACITOR	CKCYX273M16
Other resistors		RD1/8PM□□□□	C723, 724	CERAMIC CAPACITOR	CKSQYB472K50
OTHERS			C725, 726	CERAMIC CAPACITOR	CKSQYB103K50
CN10	CONNECTOR (14P)	KPE14	C727, 728	CERAMIC CAPACITOR	CKSQYB182K50
CN11	CONNECTOR (15P)	KPE15	C729, 730	CERAMIC CAPACITOR	CKSQYB472K50
CN12	CONNECTOR (13P)	KPE13	C731, 732	CERAMIC CAPACITOR	CKSQYB681K50
CN16	CONNECTOR (7P)	KPE7	C733, 734	CERAMIC CAPACITOR	CKSQYB182K50
CN4	CONNECTOR (13P)	KPE13	C735, 736	ELECTR. CAPACITOR	CEAS101M10
CN5	CONNECTOR (5P)	KPE5	C737, 738	CERAMIC CAPACITOR	CKSQYB473K50
CN6	CONNECTOR (4P)	KPC4	RESISTORS		
PIN JACK (6P)		AKB1121	R701	CARBONFILM RESISTOR	RD1/8PM103J
PIN JACK (2P)		AKB1146	R703, 704	CARBONFILM RESISTOR	RD1/8PM223J
SPEAKER TERMINAL 4-P		AKE-109	R710	RESISTOR ARRAY (1M)	RA8T105J
JACK		AKN-203	R711, 712	CARBON FILM RESISTOR	RD1/4PM390J
SOCKET (14P)		AKP1048	R726, 727	CARBONFILM RESISTOR	RD1/8PM103J
SOCKET (4P)		AKP1046	Other resistors		
GEQ assembly		AWX1048	VR assembly		
			SEMICONDUCTORS		
			IC551	OP-AMP IC	RC4558DXP
			IC552	MECHANISM DRIVER IC	TA72915
			Q551, 552	TRANSISTOR	2SC2878
			Q553	TRANSISTOR	RN2203

Mark No.	Description	Parts No.
CAPACITORS		
C551, 552	ELECTR.CAPACITOR	CEAS4R7M50
C553, 554	CHIP CAPACITOR	CCSQCH101J50
C555, 556	ELECTR.CAPACITOR	CEAS101M16
C557	ELECTR.CAPACITOR	CEAS220M25
C558	CERAMIC CAPACITOR	CKSQYF104Z50

C559	CERAMIC CAPACITOR	CKCYF473Z50
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RESISTORS

VR551	VARIABLE RESISTOR	ACX1051
R554	CHIP RESISTOR	RS1/10S00J
R555, 556	CHIP RESISTOR	RS1/10S104J
R561	CHIP RESISTOR	RS1/10S000J
R565, 566	CHIP RESISTOR	RS1/10S102J
	Other resistors	RD1/8PM□□□□

HEAD PHONE assembly**CAPACITOR**

C453	CERAMIC CAPACITOR	CKDYF473Z50
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RESISTORS

R451, 452	METAL OXIDE RESISTOR	RS2LMF331J
R453	CARBONFILM RESISTOR	RD1/8PM100J

OTHERS

CN1	JACK (HEAD PHONE) CONNECTOR (5P)	AKN1010 KPC5
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TRANS CONNECT assembly

No parts are supplied with the TRANS CONNECT assembly.

◎ DISPLAY assembly (AWZ3351)**SEMICONDUCTORS**

IC1501	LOGIC IC	SN74LS05N
IC1502	LOGIC IC	SN74LS03N
IC1503	GEQ-BPF IC	BA3826S
IC1504	OP-AMP IC	RC4558DXP
IC1505	SPECTRUM ANALYZER CONTROL μ -COM	PD3174A
IC1551	SYSTEM CONTROL μ -COM	PD5147B
IC1552	RESET IC	M51951BSL

Mark No.	Description	Parts No.
Q1501-1504	TRANSISTOR	RN1201
Q1505-1507	TRANSISTOR	RN1203
Q1508, 1509	TRANSISTOR	RN2201
Q1510	TRANSISTOR	RN1203
Q1601	TRANSISTOR	RN2204
Q1602	TRANSISTOR	RN1203
Q1603	TRANSISTOR	RN2204
Q1604	TRANSISTOR	2SA1515
Q1605	TRANSISTOR	RN1203
Q1606	TRANSISTOR	2SA1515

Q1607	TRANSISTOR	RN1203
Q1608	TRANSISTOR	2SA1515
Q1609	TRANSISTOR	RN1203
Q1610	TRANSISTOR	2SA1515
Q1611	TRANSISTOR	RN1203

D1501-1504	LED (GREEN)	AEL1130
D1505	LED (RED)	AEL1119
D1506, 1507	LED (RED)	AEL1126
D1508, 1509	LED	AEL1128
D1510	LED (RED)	AEL1065

D1511-1516	LED (RED)	AEL1108
D1517-1531	DIODE	1SS252
D1535-1543	DIODE	1SS252
D1544, 1545	LED (GREEN)	AEL1129
D1546	LED (RED)	AEL1065

D1547, 1548	DIODE	1SS252
D1601-1617	DIODE	1SS252
D1651-1658	DIODE	1SS252
D1660-1664	DIODE	1SS252

SWITCHES

S1504-1507	SWITCH	ASG1034
S1510-1514	SWITCH	ASG1034
S1516-1519	SWITCH	ASG1034
S1522-1525	SWITCH	ASG1034
S1528	SWITCH	ASD1012

S1529	ROTARY ENCODER	ASX1009
S1530-1535	SWITCH	ASG1034
S1537-1544	SWITCH	ASG1034
S1546-1549	SWITCH	ASG1034

COILS

L1501	AXIAL INDUCTOR	LAU221K
L1651	AXIAL INDUCTOR	LAU220K

CAPACITORS

C1501	CERAMIC CAPACITOR	CKDYX473M16
C1504	ELECTR.CAPACITOR	CEJA470M10
C1505	CEA (47000/5.5V)	ACH1070
C1506	CERAMIC CAPACITOR (0.022)	ACG1022
C1507	CERAMIC CAPACITOR	CCDSL100D50

Mark No.	Description	Parts No.
C1508	CERAMIC CAPACITOR	ACG1022
C1509	CERAMIC CAPACITOR	CKMYB102K50
C1510	CERAMIC CAPACITOR	CKDYX473M16
C1601	ELECTR.CAPACITOR	CEAS470M10
C1602	ELECTR.CAPACITOR	CEASR33M50
C1651	CERAMIC CAPACITOR	CKCYF473Z50
C1652	ELECTR.CAPACITOR	CEAS101M16
C1653	CERAMIC CAPACITOR	CKCYF473Z50
C1654-1658	CERAMIC CAPACITOR (1000p)	ACG1020
C1659	ELECTR.CAPACITOR	CEAS010M50

RESISTORS

VR1601, 1602	VR	VRTM6V203
VR1603	VR	VRTM6V103

R1543	RESISTOR ARRAY (100k)	RA13S104J
R1544	RESISTOR ARRAY (100k)	RA15T104J
R1662	RESISTOR ARRAY (3.3K)	RA8T332J

Other resistors RD1/8PM□□□□

OTHERS

V1501	FL TUBE	AAV1116
X1502	CERAMIC RESONATOR	ASS1018
X1651	CERAMIC RESONATOR	ASS1025
	REMOTE RECEIVER UNIT	AXX1010
CN8	CONNECTOR (15P)	KPE15

1 MECHA SW assembly
SWITCHES

S1551-1555	SWITCH	ASG1034
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2 MECHA SW assembly
SWITCHES

S1556-1560	SWITCH	ASG1034
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MIC BALANCE assembly
SEMICONDUCTORS

IC901	OP-AMP IC	NJM4558S-X
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Mark No.	Description	Parts No.
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CAPACITORS

C901	CERAMIC CAPACITOR	CKMYB681K50
C902	ELECTR.CAPACITOR	CEAS010M50
C903	CERAMIC CAPACITOR	CKMYB471K50
C904, 905	ELECTR.CAPACITOR	CEAS100M25
C906, 907	CERAMIC CAPACITOR	CKIDYX473M16

C908	CERAMIC CAPACITOR	CKDYF473Z50
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RESISTORS

VR552	VARIABLE RESISTOR	ACS1066
VR901	VARIABLE (10K-X1)	ACS1065

Other resistors RD1/8PM□□□□

OTHERS

CN3	JUMPER CONNECTOR	KPC6
	JACK (MIC)	AKN1017

© SUB TRANS assembly (AWR1058)

SEMICONDUCTORS

IC101	REGULATOR IC	NJM78M56FAS
IC102	REGULATOR IC	UPC78M12AHF
Q101	TRANSISTOR	2SC2458
Q102	TRANSISTOR	2SB560
D101	ZENER DIODE	RD10ESB2
D102	ZENER DIODE	RD30ESB2
D103-106	DIODE	1SR139-400
D107, 109	DIODE	1SS252

RELAY

RY101	RELAY	ASR1027
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TRANSFORMER

△ T101	POWER TRANSFORMER	ATT1144
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CAPACITORS

C101	ELECTR.CAPACITOR	CEAS222M25
C102	ELECTR.CAPACITOR	CEAS221M50
C103, 104	ELECTR.CAPACITOR	CEAS470M16
C105	ELECTR.CAPACITOR	CEAS470M50
C106	ELECTR.CAPACITOR	CEAS220M50
C107	ELECTR.CAPACITOR	CEAS470M16

RESISTORS

RI01	CARBON FILM RESISTOR	RD1/4PMF392J
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Other resistors RD1/8PM□□□□

OTHERS

AC socket (OUTLET 1P) AKP1078

Mark No.	Description	Parts No.
1 MECHA assembly		
CAPACITORS		
C2001, 2002	CERAMIC CAPACITOR	CKMYB391K50
C2005, 2006	AUDIO FILM CAPACITOR	CFTXA223J50
C2007, 2008	ELECTR.CAPACITOR	CEAS4R7M50
C2009, 2010	ELECTR.CAPACITOR	CEAS470M10
RESISTORS		
VR2001, 2002	VR	VRTM6H202
	Other resistors	RD1/8PM□□□□

Mark No.	Description	Parts No.
RESISTORS		
VR2021, 2022	VR	VRTM6V202
VR2251, 2252	VR	VRTM6H204
R2253	CARBON FILM RESISTOR	RD1/2PM360J
	Other resistors	RD1/8PM□□□□

2 MECHA assembly**SEMICONDUCTORS**

IC2001, 2021	OP-AMP IC	RC4558DXP
Q2021, 2022	N-FET	2SK373
Q2251	TRANSISTOR	RN1201
Q2252	TRANSISTOR	2SA1515
Q2253, 2254	TRANSISTOR	2SC3377
Q2255	TRANSISTOR	2SC2458
D2021-2026	DIODE	1SS252

COILS & TRANSFORMERS


L2204, 2205	INDUCTOR	LTA822J
T2251	OSC TRANSFORMER	ATX-043

CAPACITORS

C2021, 2022	CERAMIC CAPACITOR	CCMSL100D50
C2023, 2024	CERAMIC CAPACITOR	CKMYB391K50
C2027, 2028	AUDIO FILM CAPACITOR	CFTXA223J50
C2029, 2030	ELECTR.CAPACITOR	CEAS4R7M50
C2031, 2032	ELECTR.CAPACITOR	CEAS470M10
C2219, 2220	CERAMIC CAPACITOR	CCDSL271K500
C2223, 2224	CERAMIC CAPACITOR	CKDYB681K50
C2251	ELECTR.CAPACITOR	CEAS470M16
C2252, 2253	CERAMIC CAPACITOR	CGMYX103M16
C2254	CERAMIC CAPACITOR	CKMYB221K50
C2255	MYLOR FILM CAPACITOR	CQMA153K50
C2256	CERAMIC CAPACITOR	CKMYB681K50
C2257	MYLOR FILM CAPACITOR	CQMA123K250
C2258	ELECTR.CAPACITOR	CEAS4R7M50
C2259, 2260	CERAMIC CAPACITOR	CCCSL101K500
C2261	MYLOR FILM CAPACITOR	CQMA562K400
C2262	CQPA (2000P/630V)	ACE1020
C2263	ELECTR.CAPACITOR	CEAS100M50









4. FOR YPW TYPE

NOTES:

- Parts without part number cannot be supplied.
- The  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.



4.1 CONTRAST OF MISCELLANEOUS PARTS

The DC-Z84/YPW type is the same as the DC-Z84/SD type with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		DC-Z84/SD type	DC-Z84/YPW type	
⊙	SUB TRANS assembly	AWR1058	AWR1062	
	S101 Line voltage selector switch	AKX1004	.....
	S102 Line voltage selector switch	AKX-507	.....
	T2001 Power transformer	ATS1319	ATS1320	
	FU101 (T4A/250V)	AEK-400	.....
	FU101 (T2/250V)	.....	AEK-017	
	FU103 (T1.6A/250V)	AEK-405	.....
	AC Power cord	ADG1051	ADG-043	
	AC socket (OUTLET 1P)	.....	AKP-517	
	Operating instructions (Spanish)	ARC1234	.....

4.2 SUB TRANS assembly (AWR1062)

The SUB TRANS assembly (AWR1062) is the same as the SUB TRANS assembly (AWR1058) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWR1058	AWR1062	
	T101 Power transformer	ATT1144	ATT1149	
	AC socket (OUTLET 1P)	AKP1078	.....

A



Q

□

C



D

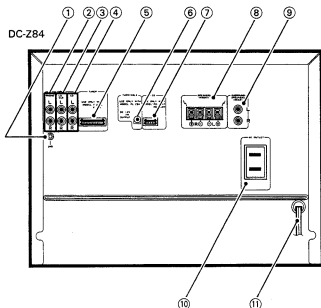
- Others:

P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Goni-fixed resistor

- 3

5. PANEL FACILITIES

REAR PANEL FACILITIES



① Ground terminal (GND)

Connect this to the ground terminal on the turntable (except for PL-Z94).

② PHONO input jacks

Connect the audio cord of the turntable to these jacks.

③ LD/VCR jacks

Connect to audio output jacks of LD player or VCR, etc.

④ CD input jacks

Connect to output jacks of a CD player.

⑤ TUNER jacks

Connect the tuner cord here.

⑥ TURNTABLE (DC 12 V OUTPUT) jack

This jack supplies power to the turntable PL-Z94.
Connect the power supply cord of the turntable to this jack.

⑦ CD jacks

Connect to a compact disc player PD-Z74T or PD-Z84M flat cable.

⑧ SPEAKERS terminals

L: Connect the left speaker system as seen from the listening position.
R: Connect the right speaker system as seen from the listening position.

NOTE:

Connect a speaker system having a nominal impedance ranging from 6 Ω to 16 Ω .

⑨ SURROUND SPEAKERS jacks

Connect the surround speaker systems.

NOTE:

Connect a speaker system having a nominal impedance of 16 Ω or more.

⑩ AC OUTLET (SWITCHED 50 W MAX)

Power supplied through this outlet is turned on and off by the cassette deck amplifier's POWER switch. Total electrical power consumption of connected equipment should not exceed 50 W.

NOTE:

Do not connect appliances with high power consumption such as heaters, irons, or television sets to the AC OUTLET in order to avoid overheating or fire hazard.

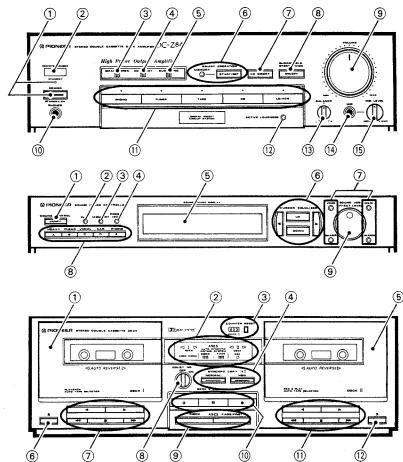
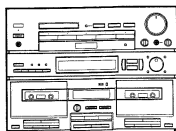
This can cause the cassette deck amplifier to malfunction.

⑪ Power cord

Connect this to the household electrical outlet.

FRONT PANEL FACILITIES

DC-Z84



- This unit has an automatic tape type selector.
- Tapes can be played back on deck I; tapes can be played back and recorded on deck II.
- Sound can be recorded as adjusted by the sound image controller.
- Use a normal or chrome position tape.

■ Amplifier section

- ① POWER STANDBY/ON switch /STANDBY indicator**
This is the switch for electric power.

ON: When set to the ON position, power is supplied and the unit becomes operational.

STANDBY: When set to the STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness.

When the STANDBY indicator is on, the unit is in STANDBY.

- ② REMOTE SENSOR window**

- ③ SMART OPER. (OPERATION) indicator**

This lights when smart operation is on.
It goes out after about 30 seconds.

- ④ CD DIRECT indicator**

This lights when CD DIRECT is on.

- ⑤ SURROUND indicator**

This lights when SURROUND & STEREO WIDE is on.

- ⑥ SMART OPERATION buttons**

[START/SET]

Use when programming memory and operating SMART OPERATION.

[MEMORY]

Use when programming SMART OPERATION into memory.

- ⑦ CD DIRECT button**

Press this button to listen to a CD without passing the signal through sound quality adjustment circuits.

- ⑧ SURROUND & STEREO WIDE button**

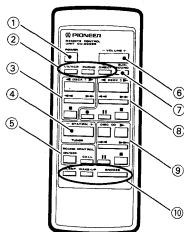
By turning this switch ON, you can enjoy surround reproduction when rear speakers are used.

By turning this switch ON, you can enjoy STEREO WIDE reproduction with greater left-right spread when rear speakers are not used.

NOTE:

- In the case of monaural source, SURROUND & STEREO WIDE effects cannot be obtained.
- SURROUND & STEREO WIDE functions do not operate if CD DIRECT is on.

Remote control unit



① POWER button

② Function buttons

- LD/VCR Sets function to LD/VCR.
 PHONO Sets function to PHONO.
 CD DIRECT Sets function to CD DIRECT.

③ DECK I operation buttons: Same as Deck I operation buttons on the cassette deck amplifier.

④ TUNER STATION button

- Before operation, memorize broadcast stations in the STATION CALL buttons.

- + Stations change in order in the upward direction
 - Stations change in order in the downward direction.

⑤ SOUND CONTROL operation buttons

ON/OFF: Turns the sound image controller on and off.

CALL: Recalls the preset equalizing curves (PRESET) and memorized sound control (PROGRAM) in sequence.

⑥ VOLUME + (UP)/- (DOWN) button

When pressed, VOLUME on the amplifier is actually moved by a motor.

⑦ SURROUND button

Turns SURROUND & STEREO WIDE on and off.

⑧ Deck II operation button: Same as Deck II operation buttons and DECK II CONTROL buttons on the cassette deck amplifier (except MUTE).

⑨ CD operation buttons

Perform the connections so that the CD player is operated by the remote control unit.

- ▶ Play
 DISC DISC selection
 ■ Stop
 II Pause
 ◀▶ Track search

NOTE:

Note that the DISC selector button on the remote control unit may not operate, depending on the CD player used.

⑩ Timer operation buttons

SLEEP: Sets the sleep timer.

WAKE-UP: Timer playback setting/cancellation can be performed when the timer playback time has been set. This is shown in the tuner display section.

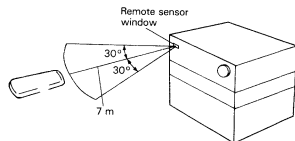
SNOOZE: Turns off power if pressed after timer playback begins. Timer playback begins again approx. 5 minutes later.

The amplifier input selector automatically switches to the music source being operated when you press the CD playback (▶), cassette deck playback (◀, ▶), or tuner station controls.

NOTE:

It is not possible to operate the CD player with the remote control unless the control cord is connected.

Range of remote control



When the remote control unit is pointed at the remote sensor window on the amplifier section and any of its buttons is pressed, the tuner and other components can be operated by remote control. Distance: Within a range of approx. 7 meters (23 feet) from the remote sensor window.

Angle: Within approx. 30 degrees from the center of the remote sensor window.

Remote control will not be possible if there is an obstacle between the remote control unit itself and the remote sensor window. Performance of the remote control unit is adversely affected in the presence of strong fluorescent light. Keep such lights away, especially from the sensor window.

6. SPECIFICATIONS

Amplifier Section

Continuously Average Power Output is 37 Watts* per channel, min., at 8 ohms from 40 Herz to 20,000 Herz, with no more than 0.4 %** total harmonic distortion.

* Measured pursuant to the Federal Trade Commission's Trade Regulation rules on Power Output Claims for Amplifiers.

Music power (DIN)	80 W + 80 W (1 kHz, T.H.D. 1 %, 8 Ω)
Continuous Power Output (DIN)	45 W + 45 W (1 kHz, T.H.D. 1 %, 8 Ω)
Peak music power output	500 W
Graphic equalizer frequency band.....	60 Hz, 150 Hz, 400 Hz, 1 kHz, 2.4 kHz, 6 kHz, 15 kHz, \pm 5.5 dB
Total Harmonic Distortion (40 Hz to 20,000 Hz, 22.5 W, 8 Ω)*	No more than 0.2 %

Cassette Deck Section

Systems	4 track, 2-channel stereo
Heads	Recording/playback head x 1 Playback head x 1 Erasing head x 1
Motor	DC servo 2 speed motor x 2
Wow and Flutter	No more than 0.09 % (WRMS)
Fast Winding Time	Approximately 105 seconds (C-60 tape)
Frequency Response (– 20 dB recording):	
Normal tape	35 Hz to 14,000 Hz \pm 6 dB
CrO ₂ tape	35 Hz to 15,000 Hz \pm 6 dB
Signal-to-Noise ratio	
Dolby NR OFF	56 dB
Noise Reduction Effect	
Dolby B type NR ON	More than 10 dB (at 5 kHz)

Furnished Parts

Operating Instructions	1
Remote Control Unit	1
Dry Cell Batteries	2

Miscellaneous

Power requirements	
Australian model	a.c. 240 Volts ~, 50/60 Hz
Other destination models	
..... AC 110/120–127/220/240 V (switchable)	50/60 Hz
Power Consumption	336 W
Dimensions	360 (W) x 271 (H) x 309 (D) mm 14-3/16 (W) x 10-11/16 (H) x 12-3/16 (D) in
Weight (without package)	8 kg (17 lb 11 oz)

Accessories

EP Adapter	1
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* Specifications and design subject to possible modification without notice due to improvement.

** Measured By Audio Spectrum Analyzer.